

Westinghouse Electric Company Nuclear Fuel Columbia Fuel Fabrication Facility 5801 Bluff Road Hopkins, South Carolina 29061 USA

SCDHEC, BLWM Kim Kuhn 2600 Bull Street Columbia, SC 29201 Direct tel: 803.647.1920 Direct fax: 803.695.3964 e-mail: joynerdp@westinghouse.com Your ref: Our ref: LTR-RAC-21-24

March 11, 2021

Subject: February 2021 CA Progress Report

Ms. Kuhn:

In accordance with Item 19 of Consent Agreement (CA) 19-02-HW, this progress report is being submitted to you, including the following requested information:

- (a) a brief description of the actions which Westinghouse has taken toward achieving compliance with the Consent Agreement during the previous month;
- (b) results of sampling and tests, in tabular summary format received by Westinghouse during the reporting period;
- (c) a brief description of all actions which are scheduled for the next month to achieve compliance with the Consent Agreement, and other information relating to the progress of the work as deemed necessary or requested by the Department; and
- (d) information regarding the percentage of work completed and any delays encountered or anticipated that may affect the approved schedule for implementation of the terms of the Consent Agreement, and a description of efforts made to mitigate delays or avoid anticipated delays.

In response to the above requirements, the following is being reported to the Department since the last progress report submitted on February 15, 2021. The following progress report is for work occurring from February 1-28, 2021:

- (a) Actions during the previous month:
   Westinghouse began implementation of the Final Remedial Investigation (RI) Work Plan on 6/10/19. To comply with Item 4 of the CA, the following actions were completed this month.
  - Completed the following activities to support the Southern Storage Area (SSA) Operable Unit (OU) Work Plan:

- Completed excavation and confirmatory soil sampling under intermodal container C-21 for tetrachloroethylene on February 23, 2021. Additional information is reported in section (b) "Results of sampling and tests" below.
- Completed the following to support the **Phase II RI** Work Plan:
  - Completed installation and development of permanent monitoring well W-106 on the Upper Sunset Lake Dike.
  - Redeveloped permanent monitoring well W-25.
  - Collected groundwater samples from all 14 newly installed wells (W-98-100, W-102-112).
  - Collected the additional Primary Soil Gas Survey Area devices.
  - Initiated investigative activities for groundwater screening borings L-48 through L-58 that were proposed in the January 14th teleconference:
    - Cleared paths to the boring locations.
    - Conducted underground utility survey.
    - Completed collection of lithologic data and groundwater screening at borings L-50, L-51 and L-56 through L-58.
    - Began collecting lithologic data from boring L-49 before drilling operations were postponed because of weather conditions.
  - Submitted RI Phase II Work Plan Addendum "Sediment Sampling Plan to Bound the *Extent of Uranium Around SED-44*" (LTR-RAC-21-20) on February 12, 2021.
  - Continued East Lagoon closure activities.

### (b) Results of sampling and tests:

### Soil Sampling Underneath C-21 and Remediation

- On September 10, 2020, initial soil sampling was conducted under intermodal container C-21.
  - Systematic and bias soil sampling was conducted in accordance with the approved SSAOU Soil Sampling Work Plan.
  - Additional soil sampling events were conducted on November 5, 2020 and January 26, 2021.
- Results from initial and subsequent soil sampling events indicated that C-21 exceeded the RSL (0.0023 mg/kg) for tetrachloroethylene at locations C-21-A (bias) and C-21-3 (systematic) and at subsequent sampling location C-21a (bias).
- Soil that exceeded the RSL for tetrachloroethylene was excavated, and the affected areas were sampled again (confirmatory sampling).
- Two confirmatory soil sampling events were conducted underneath intermodal container C-21 on February 8, 2021 and February 23, 2021. All confirmatory results were below the RSL for tetrachloroethylene, meaning that the remedial action was complete.
- Analytical results of the soil sampling along with a graphic are included in this monthly report as **Attachments A-B**.

### **Primary Soil Gas Survey Area**

• Results from the additional soil gas screening were received and identify two potential source areas for delineation via soil sampling. The Beacon Environmental Map Report of the Primary Soil Gas Survey Area is included in this monthly report as **Attachment C**.

### **Groundwater Screening**

- Groundwater screening results from borings L-50, L-51 and L-56 through L-58 were received in February 2021. Groundwater from borings L-50 and L-51 was impacted with chlorinated volatile organic compounds (CVOCs) above the maximum contaminant level for tetrachloroethylene. Groundwater screening results from borings L-56 through L-58 indicate that the impacted groundwater does not migrate further to the west towards the property boundary. The groundwater screening analytical results for L-50, L-51 and L-56 through L-58 were tabulated and are included as **Attachment D**.
- (c) Brief description of all actions which are scheduled for the next month:
  - In accordance with **Item 4** of the CA, Westinghouse will continue to implement the Work Plan to include the following actions:
  - Complete the collection of lithologic data and groundwater screening from borings L-48, L-49 and L-52 through L-55.
  - Install pressure transducers in the five monitoring wells around the Gator Pond (W-4, W-15, W-16, W-27 and W-92).
  - Install the three additional staff gauges in the Phase II Remedial Investigation Work Plan
  - Install pressure transducers and VuLink telemetry systems at each staff gauge location.
  - Conduct sediment sampling in Upper Sunset Lake to bound impact at location SED-44 and in one additional sediment transect in Upper Sunset Lake approximately 25 feet west of the Upper Sunset Dike.
  - Host a site visit with DHEC on March 11 to observe sediment sampling in Upper Sunset Lake, East Lagoon closure activities, and groundwater screening.
  - Survey site installations (monitoring wells, staff gauges, etc) and lithologic borings to support further development of the Conceptual Site Model and the Black Mingo confining clay structure contour map.
  - Continue East Lagoon closure activities.
- (d) Percentage of work completed and any delays encountered or anticipated:
  - 25% of Phase II Work Scope Completed.
  - Currently there are no anticipated delays.

Respectfully,

Vana Aryner

Diana P. Joyner Principal Environmental Engineer Westinghouse Electric Company, CFFF 803.497.7062 (m)

cc: N. Parr, Environmental Manager J. Ferguson, EH&S Manager J. Grant, AECOM Project Manager ENOVIA Records

Attachment A: SSAOU Tabulated Soil Sampling Results and Drawing

Attachment B: C-21 Sampling Events and Lab Reports

Attachment C: Beacon Environmental Map Report (Soil Gas Surveys)

Attachment D: Tabulated Groundwater Screening Results (L-50, L-51 and L-56 through L-58)

## Attachment A

### SSAOU Tabulated Soil Sampling Results and Drawing

Tabulated Soil Sampling Results for Intermodal Containers/Sealands C-21

### Sampling Events: September 10, 2020

November 5, 2020 January 26, 2021 February 8, 2021 February 23, 2021

Drawing with Soil Sampling Results

# Sealand Soil Analysis Tetrachloroethylene Results Compilation C-21

ID	Date Sampled Lab Report #	< or =	Result (mg/kg)	Notes
C-21-3	9/10/2020 GEL WO 521515	=	0.005040	Systematic excavation required
C-21-6	9/10/2020 GEL WO 521515	=	0.001280	Bias
C-21-A	11/5/2020 GEL WO 526713	=	0.005630	Bias excavation required
С-21-В	11/5/2020 GEL WO 526713	=	0.000827	Bias
С-21-а	1/26/2021 GEL WO 533288	=	0.002420	Bias excavation required
C-21-b	1/26/2021 GEL WO 533288	<	0.000387	Bias
C-21-a-1	2/8/2021 GEL WO 534641	=	0.002260	Bias
C-21-a-2	2/8/2021 GEL WO 534641	=	0.001170	Bias
C-21-a-1-North	2/23/2021 GEL WO 525611	<	0.000308	bias
C-21-a-1-South	2/23/2021 GEL WO 525611	<	0.000320	Bias

### Residential Use Screening Level (RUSL): 0.0023 mg/kg



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			FRONT (ENTRANC	

	DFTM СНКД	W.D. HERLONG	03/02 2021	W	Westi	inghous
	APPD				PROCESS	181040
	APPD	,				C-1
	APPD		1	TITLE		PCE SAMPLI
_IMIT	APPD					UNIT: PF
D TO EITHER 2 OR 4 FEET DEPTH	APPD				QN NO	DWG NO
D TO EITHER 2 OR 4 TEET DEFIT	APPD					
	APPD		S	cale N	/A	DWG TYPE
3		2				
					1	



### Attachment B

### C-21 Sampling Events and Lab Reports

### **First Sampling Event**

Reported in Nov 2020 Progress Report Sampling conducted: September 10,12 &15, 2020 GEL Work Order: 521515 Report Date: September 30, 2020

### Second Sampling Event

Sampling conducted: November 5, 2020 GEL Work Order: 526713 Report Date: November 11, 2020

### **Third Sampling Event**

Sampling conducted: January 26, 2021 GEL Work Order: 533288 Report Date: February 3, 2021

#### **Confirmatory Sampling Event**

Sampling conducted: February 8, 2021 GEL Work Order: 534641 Report Date: February 16, 2021

### **Confirmatory Sampling Event**

Sampling conducted: February 23, 2021 GEL Work Order: 535611 Report Date: February 26, 2021



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November 11, 2020

Ms. Cynthia Teague Westinghouse Electric Company, LLC PO Drawer R Columbia, South Carolina 29205

Re: Sealand Soil Sampling Work Order: 526713

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on November 06, 2020. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Ludy Fabra

Lindsay Fabra Project Manager

Purchase Order: PO 4500778461 Enclosures



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### Certificate of Analysis Report for

WNUC009 Westinghouse Electric Co, LLC

Client SDG: 526713 GEL Work Order: 526713

#### The Qualifiers in this report are defined as follows:

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Lindsay Fabra.

Ludy Fabra Reviewed by

Page 2 of 25 SDG: 526713



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# **Analytical Detections Summary**

SDG/Repo Project ID		526713 Sealand S	oil Sampling		Client		Westinghouse Elec	tric Co, LLC	
GEL ID	Client Sa	ample ID	Method	(	CAS	Analy	te	Result	Q
526713001	C-21-A		SW846 8260D	1	27-18-4	Tetrac	hloroethylene	0.00563 mg/kg	

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# **Certificate of Analysis**

Report Date: November 11, 2020 Company : Westinghouse Electric Company, LLC Address : PO Drawer R Columbia, South Carolina 29205 Contact: Ms. Cynthia Teague Project: Sealand Soil Sampling Client Sample ID: WNUCSealand C-21-A Project: Sample ID: 526713001 Client ID: WNUC009 Matrix: Soil Collect Date: 05-NOV-20 14:07 06-NOV-20 Receive Date: Collector: Client Moisture: 6.42% Qualifier DL RL Parameter Units PF DF Analyst Date Time Batch Method Result Volatile Organics Totals Tetrachloroethylene VOA only "Dry Weight Corrected" 0.00563 0.000292 mg/kg Tetrachloroethylene 0.000877 0.821 1 JP1 11/09/20 1951 2060807 1 The following Prep Methods were performed: Method Prep Batch Description Analyst Date Time SW846 5035 5035 Prep JP1 11/05/20 2060806 1407 The following Analytical Methods were performed: Method Description Analyst Comments SW846 8260D Result Surrogate/Tracer Recovery Test Nominal Recovery% Acceptable Limits 1,2-Dichloroethane-d4 Totals Tetrachloroethylene VOA only "Dry Weight 0.0428 mg/kg 0.0500 98 (81%-124%) Corrected' Bromofluorobenzene Totals Tetrachloroethylene VOA only "Dry Weight 0.0432 mg/kg 0.0500 98 (70%-130%) Corrected" Toluene-d8 Totals Tetrachloroethylene VOA only "Dry Weight 0.0420 mg/kg 0.0500 96 (81%-120%) Corrected" Notes: Column headers are defined as follows: DF: Dilution Factor Lc/LC: Critical Level **DL:** Detection Limit PF: Prep Factor

DL: Detection LimitPF: Prep FactorMDA: Minimum Detectable ActivityRL: Reporting LimitMDC: Minimum Detectable ConcentrationSQL: Sample Quantitation Limit

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# **Certificate of Analysis**

Report Date: November 11, 2020 Company : Westinghouse Electric Company, LLC Address : PO Drawer R Columbia, South Carolina 29205 Contact: Ms. Cynthia Teague Project: Sealand Soil Sampling Client Sample ID: WNUCSealand C-21-B Project: Sample ID: 526713002 Client ID: WNUC009 Matrix: Soil Collect Date: 05-NOV-20 14:15 06-NOV-20 Receive Date: Collector: Client Moisture: 4.98% Qualifier RL Parameter DL Units PF DF Analyst Date Time Batch Method Result Volatile Organics Totals Tetrachloroethylene VOA only "Dry Weight Corrected" 0.000827 0.000296 mg/kg Tetrachloroethylene J 0.000889 0.845 1 PXY1 11/10/20 1440 2060807 1 The following Prep Methods were performed: Method Prep Batch Description Analyst Date Time SW846 5035 5035 Prep JP1 11/05/20 2060806 1415 The following Analytical Methods were performed: Method Description Analyst Comments SW846 8260D Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits 1,2-Dichloroethane-d4 Totals Tetrachloroethylene VOA only "Dry Weight 0.0425 mg/kg 0.0500 96 (81%-124%) Corrected' Bromofluorobenzene Totals Tetrachloroethylene VOA only "Dry Weight 0.0439 mg/kg 0.0500 99 (70%-130%) Corrected" Toluene-d8 Totals Tetrachloroethylene VOA only "Dry Weight 0.0424 mg/kg 0.0500 95 (81%-120%) Corrected" Notes: Column headers are defined as follows: DF: Dilution Factor Lc/LC: Critical Level **DL:** Detection Limit

MDA: Minimum Detectable Activity MDC: Minimum Detectable Concentration

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# **Certificate of Analysis**

Report Date: November 11, 2020 Company : Westinghouse Electric Company, LLC Address : PO Drawer R Columbia, South Carolina 29205 Contact: Ms. Cynthia Teague Project: Sealand Soil Sampling Client Sample ID: WNUCSealand C-22-C Project: Sample ID: 526713003 Client ID: WNUC009 Matrix: Soil Collect Date: 05-NOV-20 14:21 06-NOV-20 Receive Date: Collector: Client Moisture: 7.11% Qualifier RL Parameter DL Units PF DF Analyst Date Time Batch Method Result Volatile Organics Totals Tetrachloroethylene VOA only "Dry Weight Corrected" 0.000316 mg/kg Tetrachloroethylene U ND 0.000949 0.882 1 JP1 11/09/20 2045 2060807 1 The following Prep Methods were performed: Method Prep Batch Description Analyst Date Time SW846 5035 5035 Prep JP1 11/05/20 1421 2060806 The following Analytical Methods were performed: Method Description Analyst Comments SW846 8260D Result Surrogate/Tracer Recovery Test Nominal Recovery% Acceptable Limits 1,2-Dichloroethane-d4 Totals Tetrachloroethylene VOA only "Dry Weight 0.0446 mg/kg 0.0500 94 (81%-124%) Corrected' Bromofluorobenzene Totals Tetrachloroethylene VOA only "Dry Weight 0.0472 mg/kg 0.0500 99 (70%-130%) Corrected" Toluene-d8 Totals Tetrachloroethylene VOA only "Dry Weight 0.0460 mg/kg 0.0500 97 (81%-120%) Corrected" Notes: Column headers are defined as follows: DF: Dilution Factor Lc/LC: Critical Level **DL:** Detection Limit

DL: Detection Limit MDA: Minimum Detectable Activity MDC: Minimum Detectable Concentration

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# **Certificate of Analysis**

Report Date: November 11, 2020 Company : Westinghouse Electric Company, LLC Address : PO Drawer R Columbia, South Carolina 29205 Contact: Ms. Cynthia Teague Project: Sealand Soil Sampling Client Sample ID: WNUCSealand C-22-D Project: Sample ID: 526713004 Client ID: WNUC009 Matrix: Soil Collect Date: 05-NOV-20 14:29 06-NOV-20 Receive Date: Collector: Client Moisture: 7.12% Qualifier RL Parameter DL Units PF DF Analyst Date Time Batch Method Result Volatile Organics Totals Tetrachloroethylene VOA only "Dry Weight Corrected" 0.000839 0.000363 0.00109 Tetrachloroethylene J mg/kg 1.01 1 JP1 11/09/20 2112 2060807 1 The following Prep Methods were performed: Method Prep Batch Description Analyst Date Time SW846 5035 5035 Prep JP1 11/05/20 2060806 1429 The following Analytical Methods were performed: Method Description Analyst Comments SW846 8260D Result Surrogate/Tracer Recovery Test Nominal Recovery% Acceptable Limits 1,2-Dichloroethane-d4 Totals Tetrachloroethylene VOA only "Dry Weight 0.0510 mg/kg 0.0500 94 (81%-124%) Corrected' Bromofluorobenzene Totals Tetrachloroethylene VOA only "Dry Weight 0.0533 mg/kg 0.0500 98 (70%-130%) Corrected" Toluene-d8 Totals Tetrachloroethylene VOA only "Dry Weight 0.0530 mg/kg 0.0500 97 (81%-120%) Corrected" Notes: Column headers are defined as follows: DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit MDA: Minimum Detectable Activity MDC: Minimum Detectable Concentration

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# **Certificate of Analysis**

Report Date: November 11, 2020 Company : Westinghouse Electric Company, LLC Address : PO Drawer R Columbia, South Carolina 29205 Contact: Ms. Cynthia Teague Project: Sealand Soil Sampling Client Sample ID: WNUCSealand С-23-Е Project: Sample ID: 526713005 Client ID: WNUC009 Matrix: Soil Collect Date: 05-NOV-20 14:38 06-NOV-20 Receive Date: Collector: Client Moisture: 6.21% Qualifier RL Parameter DL Units PF DF Analyst Date Time Batch Method Result Volatile Organics Totals Tetrachloroethylene VOA only "Dry Weight Corrected" 0.000273 mg/kg Tetrachloroethylene U ND 0.000819 0.768 1 JP1 11/09/20 2138 2060807 1 The following Prep Methods were performed: Method Prep Batch Description Analyst Date Time SW846 5035 5035 Prep JP1 11/05/20 2060806 1438 The following Analytical Methods were performed: Method Description Analyst Comments SW846 8260D Result Surrogate/Tracer Recovery Test Nominal Recovery% Acceptable Limits 1,2-Dichloroethane-d4 Totals Tetrachloroethylene VOA only "Dry Weight 0.0403 mg/kg 0.0500 98 (81%-124%) Corrected' Bromofluorobenzene Totals Tetrachloroethylene VOA only "Dry Weight 0.0397 mg/kg 0.0500 97 (70%-130%) Corrected" Toluene-d8 Totals Tetrachloroethylene VOA only "Dry Weight 0.0385 mg/kg 0.0500 94 (81%-120%) Corrected" Notes: Column headers are defined as follows: DF: Dilution Factor Lc/LC: Critical Level

DL: Detection Limit MDA: Minimum Detectable Activity MDC: Minimum Detectable Concentration

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# **Certificate of Analysis**

Report Date: November 11, 2020 Company : Westinghouse Electric Company, LLC Address : PO Drawer R Columbia, South Carolina 29205 Contact: Ms. Cynthia Teague Project: Sealand Soil Sampling Client Sample ID: WNUCSealand C-23-F Project: Sample ID: 526713006 Client ID: WNUC009 Matrix: Soil Collect Date: 05-NOV-20 14:45 06-NOV-20 Receive Date: Collector: Client Moisture: 8.16% Qualifier RL Parameter DL Units PF DF Analyst Date Result Time Batch Method Volatile Organics Totals Tetrachloroethylene VOA only "Dry Weight Corrected" 0.000300 mg/kg Tetrachloroethylene U ND 0.000901 0.828 1 JP1 11/09/20 2205 2060807 1 The following Prep Methods were performed: Method Prep Batch Description Analyst Date Time SW846 5035 5035 Prep JP1 11/05/20 2060806 1445 The following Analytical Methods were performed: Method Description Analyst Comments SW846 8260D Result Surrogate/Tracer Recovery Test Nominal Recovery% Acceptable Limits 1,2-Dichloroethane-d4 Totals Tetrachloroethylene VOA only "Dry Weight 0.0421 mg/kg 0.0500 93 (81%-124%) Corrected' Bromofluorobenzene Totals Tetrachloroethylene VOA only "Dry Weight 0.0433 mg/kg 0.0500 96 (70%-130%) Corrected" Toluene-d8 Totals Tetrachloroethylene VOA only "Dry Weight 0.0432 mg/kg 0.0500 96 (81%-120%) Corrected" Notes: Column headers are defined as follows: DF: Dilution Factor Lc/LC: Critical Level **DL:** Detection Limit PF: Prep Factor MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

**RL:** Reporting Limit SQL: Sample Quantitation Limit

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# **Certificate of Analysis**

Report Date: November 11, 2020

	Company : Address :	Westinghous PO Drawer F	e Electric Com	pany, LLC				-		
	Contact:	,	outh Carolina 2	29205						
	Project:	Ms. Cynthia Sealand Soil								
	Client Sample ID:		r8			Pro	oject:	WNUCSealan	d	
	Sample ID:	526713001					ient ID			
	Matrix:	Soil								
	Collect Date:	05-NOV-20	14:07							
	Receive Date:	06-NOV-20								
	Collector:	Client								
	Moisture:	6.42%								
Parameter	Quali	fier Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Notes: Counting U	Jncertainty is calcula	ated at the 95%	confidence lev	vel (1.96-sign	na).					
Column he	eaders are defined as	follows:								
DF: Diluti	on Factor		Lc/LC: Criti	cal Level						
DI · Detec	tion Limit		DE. Dran Eac	otor						

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Report Date: November 11, 2020

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	Company :	Westinghou	use Electric Com	pany, LLC						
	Address :	PO Drawer	R							
		Columbia,	South Carolina	29205						
	Contact:	Ms. Cynthi	a Teague							
	Project:	Sealand So	il Sampling							
	Client Sample ID:	C-21-B				Pro	oject:	WNUCSealan	d	
	Sample ID:	526713002				Cli	ient ID	: WNUC009		
	Matrix:	Soil								
	Collect Date:	05-NOV-20	) 14:15							
	Receive Date:	06-NOV-20	)							
	Collector:	Client								
	Moisture:	4.98%								
Parameter	Quali	fier Resul	t Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Notes: Counting U	Jncertainty is calcula	ated at the 95	% confidence lev	vel (1.96-sig	ma).					
U	eaders are defined as			ν υ	,					
DF: Diluti		10110 w 5.	Lc/LC: Criti	cal Level						
DL: Detec			PF: Prep Fac							

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Report Date: November 11, 2020

	Company : Address :	Westinghous PO Drawer F	e Electric Com R	pany, LLC					-		
	Contracto	,	outh Carolina 2	29205							
	Contact: Project:	Ms. Cynthia Sealand Soil									
	Client Sample ID:		Sampring			Pro	oject:	WN	UCSealan	d	
	Sample ID:	526713003					ient ID	): WN	IUC009		
	Matrix:	Soil									
	Collect Date:	05-NOV-20	14:21								
	Receive Date:	06-NOV-20									
	Collector:	Client									
	Moisture:	7.11%									
Parameter	Quali	fier Result	Uncertainty	MDC	RL	Units	PF	DF Ana	alyst Date	Time Batch	Method
Notes: Counting U	Incertainty is calcula	ated at the 95%	confidence lev	vel (1.96-sign	na).						
Column he	eaders are defined as	follows:									
DF: Diluti	on Factor		Lc/LC: Criti								
DI · Dataa	tion Limit		DE, Drop Eoc	ator							

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Report Date: November 11, 2020

	Company : Address :	Westinghouse E PO Drawer R	lectric Comp	any, LLC					I		,
	Contact:	Columbia, South Ms. Cynthia Tea		9205							
	Project:	Sealand Soil Sar									
	Client Sample ID:	C-22-D				Pro	oject:		WNUCSealand	1	
	Sample ID:	526713004				Cli	ent ID	):	WNUC009		
	Matrix:	Soil									
	Collect Date:	05-NOV-20 14:2	29								
	Receive Date:	06-NOV-20									
	Collector:	Client									
	Moisture:	7.12%									
Parameter	Quali	fier Result U	ncertainty	MDC	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Notes: Counting U	Incertainty is calcula	ited at the 95% co	nfidence leve	l (1.96-sigr	na).						
Column he	aders are defined as	follows:									
DF: Dilution	on Factor		Lc/LC: Critica								

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# **Certificate of Analysis**

Report Date: November 11, 2020

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Company :	Westingho	ouse Electric Com	pany, LLC						
Address :	PO Drawe	r R							
	Columbia,	South Carolina	29205						
Contact:	Ms. Cynth	ia Teague							
Project:	Sealand Se	oil Sampling							
Client Sample ID:	С-23-Е				Pr	oject:	WNUCSealan	d	
Sample ID:	52671300	5			Cl	ient ID	D: WNUC009		
Matrix:	Soil								
Collect Date:	05-NOV-2	0 14:38							
Receive Date:	06-NOV-2	20							
Collector:	Client								
Moisture:	6.21%								
Quali	fier Resu	It Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
ncertainty is calcula	ated at the 94	5% confidence lev	zel (1 96-sig	ma)					
•			1.90 515	inu).					
	follows:	L ./L C: C::::							
	Address : Contact: Project: Client Sample ID: Sample ID: Matrix: Collect Date: Receive Date: Collector: Moisture: Quali	Address :       PO Drawe         Columbia,       Columbia,         Project:       Sealand So         Client Sample ID:       C-23-E         Sample ID:       526713005         Matrix:       Soil         Collect Date:       05-NOV-2         Receive Date:       06-NOV-2         Collector:       Client         Moisture:       6.21%         Incertainty is calculated at the 95         aders are defined as follows:         on Factor	Address :       PO Drawer R         Columbia, South Carolina Z         Contact:       Ms. Cynthia Teague         Project:       Sealand Soil Sampling         Client Sample ID:       C-23-E         Sample ID:       526713005         Matrix:       Soil         Collect Date:       05-NOV-20 14:38         Receive Date:       06-NOV-20         Collector:       Client         Moisture:       6.21%         Image: Construction of the state of the	Address :       PO Drawer R         Columbia, South Carolina 29205         Contact:       Ms. Cynthia Teague         Project:       Sealand Soil Sampling         Client Sample ID:       C-23-E         Sample ID:       526713005         Matrix:       Soil         Collect Date:       05-NOV-20 14:38         Receive Date:       06-NOV-20         Collector:       Client         Moisture:       6.21%         Image: Construction of the state of	Address :       PO Drawer R         Columbia, South Carolina 29205         Contact:       Ms. Cynthia Teague         Project:       Sealand Soil Sampling         Client Sample ID:       C-23-E         Sample ID:       526713005         Matrix:       Soil         Collect Date:       05-NOV-20 14:38         Receive Date:       06-NOV-20         Collector:       Client         Moisture:       6.21%         Image: A collector in the state of t	Address :       PO Drawer R         Columbia, South Carolina 29205         Contact:       Ms. Cynthia Teague         Project:       Sealand Soil Sampling         Client Sample ID:       C-23-E         Supple ID:       526713005         Collect Date:       05-NOV-20 14:38         Receive Date:       06-NOV-20         Collector:       Client         Moisture:       6.21%         Qualifier       Result       Uncertainty         Mocretainty is calculated at the 95% confidence level (1.96-sigma).       aders are defined as follows:         on Factor       Lc/LC: Critical Level	Address :       PO Drawer R         Columbia, South Carolina 29205         Contact:       Ms. Cynthia Teague         Project:       Sealand Soil Sampling         Client Sample ID:       C-23-E         Sample ID:       526713005         Collect Date:       05-NOV-20 14:38         Receive Date:       06-NOV-20         Collector:       Client         Moisture:       6.21%         Qualifier       Result       Uncertainty         MDC       RL       Units         PF         Incertainty is calculated at the 95% confidence level (1.96-sigma).         aders are defined as follows:         on Factor       Lc/LC: Critical Level	Address :       PO Drawer R         Columbia, South Carolina 29205         Contact:       Ms. Cynthia Teague         Project:       Sealand Soil Sampling         Client Sample ID:       C-23-E         Stand Soil       Sampling         Client Sample ID:       526713005         Collect Date:       05-NOV-20 14:38         Collector:       Client         Moisture:       6.21%         Qualifier       Result         Uncertainty       MDC         Receive Date:       06-NOV-20         Collector:       Client         Moisture:       6.21%	Address :       PO Drawer R         Columbia, South Carolina 29205         Contact:       Ms. Cynthia Teague         Project:       Sealand Soil Sampling         Client Sample ID:       C-23-E         S26713005       Project:         WNUCSealand         Sample ID:       526713005         Soil       Client ID:         Voltation:       05-NOV-20 14:38         Receive Date:       06-NOV-20         Oflector:       Client         Moisture:       6.21%         Voltation:       Result         Uncertainty       MDC         Recerime defined as follows:         on Factor       Lc/LC: Critical Level

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# **Certificate of Analysis**

Report Date: November 11, 2020

									- <b>F</b>		,
	Company :	Wes	stinghous	e Electric Com	pany, LLC						
	Address :	PO	Drawer R	ł							
		Col	umbia, So	outh Carolina 2	29205						
	Contact:	Ms.	Cynthia	Teague							
	Project:	Sea	land Soil	Sampling							
	Client Sample ID:	C-2	3-F				Pre	oject:	WNUCSealan	d	
	Sample ID:		713006				Cl	ient ID	): WNUC009		
	Matrix:	Soil	l								
	Collect Date:	05-1	NOV-20	14:45							
	Receive Date:	06-l	NOV-20								
	Collector:	Clie	ent								
	Moisture:	8.16	5%								
Parameter	Qual	ifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
Notes:											
Counting U	Incertainty is calcul	ated a	t the 95%	confidence lev	vel (1.96-sig	ma).					
Column he	aders are defined as	follo	ws:								
DF: Diluti				Lc/LC: Criti	cal Level						
DI · Detec	tion Limit			PE. Pren Eac	rtor						

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# **QC Summary**

Report Date: November 11, 2020

Page 1 of 3

Westinghouse Electric Company, LLC PO Drawer R Columbia, South Carolina Ms. Cynthia Teague

Workorder: 526713

**Contact:** 

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS Batch 2060807 –									
QC1204690065 LCS Tetrachloroethylene	0.0500		0.0462	mg/kg		92	(68%-129%)	JP1	11/09/20 16:44
**1,2-Dichloroethane-d4	50.0		52.8	ug/L		106	(81%-124%)		
**Bromofluorobenzene	50.0		48.7	ug/L		97	(70%-130%)		
**Toluene-d8	50.0		47.8	ug/L		96	(81%-120%)		
QC1204691060 LCS Tetrachloroethylene	0.0500		0.0543	mg/kg		109	(68%-129%)	PXY1	11/10/20 11:33
**1,2-Dichloroethane-d4	50.0		50.4	ug/L		101	(81%-124%)		
**Bromofluorobenzene	50.0		49.4	ug/L		99	(70%-130%)		
**Toluene-d8	50.0		48.7	ug/L		97	(81%-120%)		
QC1204690066 LCSD Tetrachloroethylene	0.0500		0.0449	mg/kg	3	90	(0%-20%)	JP1	11/09/20 17:11
**1,2-Dichloroethane-d4	50.0		50.5	ug/L		101	(81%-124%)		
**Bromofluorobenzene	50.0		48.1	ug/L		96	(70%-130%)		
**Toluene-d8	50.0		47.7	ug/L		95	(81%-120%)		
QC1204690064 MB Tetrachloroethylene		U	ND	mg/kg					11/09/20 18:58

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## **QC Summary**

Workorder: 526713									Page 2 of 3
Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MSBatch2060807									
**1,2-Dichloroethane-d4	50.0		49.7	ug/L		99	(81%-124%)	JP1	11/09/20 18:58
**Bromofluorobenzene	50.0		49.3	ug/L		99	(70%-130%)		
**Toluene-d8	50.0		48.6	ug/L		97	(81%-120%)		
QC1204691059 MB Tetrachloroethylene		U	ND	mg/kg				PXY1	11/10/20 13:20
**1,2-Dichloroethane-d4	50.0		50.2	ug/L		100	(81%-124%)		
**Bromofluorobenzene	50.0		49.6	ug/L		99	(70%-130%)		
**Toluene-d8	50.0		49.3	ug/L		99	(81%-120%)		

#### Notes:

The Qualifiers in this report are defined as follows:

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B The target analyte was detected in the associated blank.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- JNX Non Calibrated Compound
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- $N\!/\!A$   $\,$  RPD or %Recovery limits do not apply.

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## **QC Summary**

Workor	Workorder: 526713					Pag	e 3 of 3			
Parmna	armname NOM Sample Qual QC Unit	s RPD%	REC%	Range	Anlst	Date	Time			
N1	N1 See case narrative									
ND	ND Analyte concentration is not detected above the detection limit									
NJ	NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qua	lifier								
Р	P OrganicsThe concentrations between the primary and confirmation columns/detectors i	OrganicsThe concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.								
Q	Q One or more quality control criteria have not been met. Refer to the applicable narrative of	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.								
R	R Sample results are rejected									
U	U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.									
UJ	UJ Compound cannot be extracted									
Х	X Consult Case Narrative, Data Summary package, or Project Manager concerning this qua	lifier								
Y	Y QC Samples were not spiked with this compound									
٨	^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Q	ualifier Not Ap	plicable for F	Radiochemi	istry.					
h	h Preparation or preservation holding time was exceeded	Preparation or preservation holding time was exceeded								
^ The R five tim	N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike co ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated five times (5X) the contract required detection limit (RL). In cases where either the sample or dup RL is used to evaluate the DUP result.	against the acce	ptance criteri	a when the	e sample is	s greater				

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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Contact:		Westinghouse Electri PO Drawer R Columbia, South Car Ms. Cynthia Teague		<u>(</u>	QC Su	mmaı	<u>y</u>		Report Date	e: Novemb	er 11, 2020		e 1 of 2
Workor	der:	526713											
Parmna	me		NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Notes:													
The Qu	alifiers i	n this report are defined	l as follows:										
**	Analyte	e is a Tracer compound											
<	Result i	is less than value report	ted										
>	Result i	is greater than value rep	ported										
BD	Results	are either below the M	DC or tracer recover	ery is low									
FA	Failed a	analysis.											
Н	Analyti	ical holding time was ex	xceeded										
J	See cas	se narrative for an expla	ination										
J	Value i	s estimated											
Κ	Analyte	e present. Reported valu	ue may be biased hi	gh. Actual	value is exp	pected to l	be lower.						
L	Analyte	e present. Reported valu	ue may be biased lo	w. Actual v	value is exp	ected to b	e higher.						
М	M if ab	ove MDC and less than	n LLD										
М	REMP	Result > MDC/CL and	< RDL										
N/A	RPD or	r %Recovery limits do r	not apply.										

N1 See case narrative

- ND Analyte concentration is not detected above the detection limit
- Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier NJ
- One or more quality control criteria have not been met. Refer to the applicable narrative or DER. Q
- R Sample results are rejected

**Contact:** 

Parmname Notes:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- UJ Gamma Spectroscopy--Uncertain identification
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- Х Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- ٨ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

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## **QC Summary**

Workorder:	526713									Page 2 of 2
Parmname		NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable. ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the

RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

### Technical Case Narrative Westinghouse Electric Co, LLC SDG #: 526713

## **GC/MS Volatile**

<u>Product:</u> Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer <u>Analytical Method:</u> SW846 8260D <u>Analytical Procedure:</u> GL-OA-E-038 REV# 28 <u>Analytical Batch:</u> 2060807

<u>Preparation Method:</u> SW846 5035 <u>Preparation Procedure:</u> GL-OA-E-039 REV# 13 <u>Preparation Batch:</u> 2060806

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	<b><u>Client Sample Identification</u></b>
526713001	C-21-A
526713002	C-21-B
526713003	C-22-C
526713004	C-22-D
526713005	С-23-Е
526713006	C-23-F
1204690064	Method Blank (MB)
1204690065	Laboratory Control Sample (LCS)
1204690066	Laboratory Control Sample Duplicate (LCSD)
1204691059	Method Blank (MB)
1204691060	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on a "dry weight" basis.

### **Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

### **Technical Information**

### Sample Re-extraction/Re-analysis

Sample 526713003 (C-22-C) was re-analyzed due to unacceptable surrogate or internal standard recoveries in the initial analysis. The re-analyses confirmed/and or passed and were reported.

### **Radiochemistry**

<u>Product:</u> Dry Weight <u>Preparation Method:</u> ASTM D 2216 (Modified) <u>Preparation Procedure:</u> GL-OA-E-020 REV# 13 <u>Preparation Batch:</u> 2060271 The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	Client Sample Identification
526713001	C-21-A
526713002	C-21-B
526713004	C-22-D
526713005	С-23-Е
526713006	C-23-F
1204688783	526713001(C-21-A) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

#### **Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

**Product: Dry Weight Preparation Method:** ASTM D 2216 (Modified) **Preparation Procedure:** GL-OA-E-020 REV# 13 **Preparation Batch:** 2060827

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	Client Sample Identification
526713003	C-22-C
1204690111	526713003(C-22-C) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

#### **Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

### **Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL Laboratories, LLC         2040 Savage Road         Charleston, SC 29407         Phone: (843) 556-8171         Fax: (843) 766-1178         (Fill in the number of containers for each test)         (Fill in the number of containers for each test)	Note: extra sample is required for sample specific QC		Specify: 5dQy (Subjectob Surcharge) Specify: 5dQy (Subjectob Surcharge) level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4 0D23 ppm TCE 1 Yes [ ] No Cooler Temp: 4. °C utam [ ] Other	Nasal	Please provide any additional defails below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)
ally Analytics			ested: Normal: Rush: X I Yes Mo ile: [ ] C of A [ ] QC Summary [ ] <i>ins:</i> EnSUXR mDL < 0. <i>ing Use Only: Custody Seal Intact</i> ? [ ] Pacific [ ] Central [ ] Mou	<ol> <li>Ustoody Number = Client Determined</li> <li>QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite</li> <li>Pield Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.</li> <li>Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.</li> <li>Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Water, WL=Mise Liquid, SO=Soli, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal</li> <li>Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).</li> <li>Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SI = Sodium Hydroxide, SA = Suffinic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank</li> </ol>	Other OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:
Phone #803-3 Phone #803-3 A0U/	~3000	11-05-20 1429 G S0 11-05-20 1445 G S0 11.05-20 1445 G S0	Date         Time           Jate         Time           Jate         11   u   ue         08 38           U         U         12 co         13           Sample Collection Tr         Sample Collection Tr         11	ment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Dupli iltered or - N - for sample was not field filtered. Waste Water, W=Water, ML=Mise Liquid, SO=Soil, SD=Sediment, S ) and number of containers provided for each (i.e. 8260B - 3, 6010B/7 de, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sod	initable LW= Listed Waste (F,K,P and U-listed wastes.) Waste code(s): ted
Project # Schwd Soil Son firm Project # Schwd Soil Son firm GGEL Quote #: WELL BOT DCOC Number: <sup>(1)</sup> : POO Number: <sup>(1)</sup> :	Sample ID Sample ID 1- A 1- B 2- C	-22-D -23-E -23-F	Chain of Custod Time 0830 12 1933 2 11 2333 13 115, see Sample Receipt &	<ol> <li>Custody Number = Client Determined</li> <li>O Codus: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite</li> <li>Pield Filtered: For liquid matrices, indicate with a - Y - for yes the sample was not field filtered.</li> <li>Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urin</li> <li>Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).</li> <li>Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank</li> </ol>	

GEL	Laboratories LLC
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Cli	ient: WNUC			Isr	SAMPLE RECEIPT & REVIEW FORM JW.07
Re	eceived By: SLB				ate Received: NOV 6, 2070
	Carrier and Tracking Number				Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Sus	spected Hazard Information	Yes	No No	*1f	Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)S	Shipped as a DOT Hazardous?		-	1	zard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
B) I	Did the client designate the samples are to be eived as radioactive?		-		C notation or radioactive stickers on containers equal client designation.
C) I radi	Did the RSO classify the samples as loactive?		/	Ma	ximum Net Counts Observed* (Observed Counts - Area Background Counts):CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) I	Did the client designate samples are hazardous'		/		C notation or hazard labels on containers equal client designation.
E) [	Did the RSO identify possible hazards?		-		PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
	Sample Receipt Criteria	Yes	NA	°Z	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?			-	Circle Applicable: Client contacted and provided COC COC created upon receipt
	Samples requiring cold preservation within $(0 \le 6 \text{ deg. C})$ ?*				Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:C
4	Daily check performed and passed on IR temperature gun?				Temperature Device Serial #: <b>T.R.i - ZO</b> Secondary Temperature Device Serial # (If Applicable):
	Sample containers intact and sealed?		Second Providence		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?		_		Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	-			If Yes, are Encores or Soil Kits present for solids? Yes_NoNA(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes No NA(If unknown, select No) Are liquid VOA vials free of headspace? Yes No NA Sample ID's and containers affected:
8	Samples received within holding time?	7			ID's and tests affected:
	Sample ID's on COC match ID's on bottles?	/	S.		ID's and containers affected:
	Date & time on COC match date & time on bottles?	/			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
1	Number of containers received match number indicated on COC?	1			Circle Applicable: No container count on COC Other (describe)
3	Are sample containers identifiable as GEL provided by use of GEL labels? COC form is properly signed in relinquished/received sections? ments (Use Continuation Form if needed):			1	Circle Applicable: Not relinquished Other (describe)

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State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M–SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019–165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-20-17
Utah NELAP	SC000122020–33
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
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List of current GEL Certifications as of 11 November 2020



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407 P 843.556.8171 F 843.766.1178

gel.com

February 03, 2021

Ms. Cynthia Teague Westinghouse Electric Company, LLC PO Drawer R Columbia, South Carolina 29205

Re: Sealand Soil Sampling Work Order: 533288

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 27, 2021. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Samuel Hogan for Lindsay Fabra Project Manager

Purchase Order: PO 4500778461 Enclosures



2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

WNUC009 Westinghouse Electric Co, LLC (4500778461)

Client SDG: 533288 GEL Work Order: 533288

#### The Qualifiers in this report are defined as follows:

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Lindsay Fabra.

Som Upm

Reviewed by

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# **Certificate of Analysis**

			mai	e of Alla	1 y 515				
							Report Da	te: February	3, 2021
	Company :	Westinghouse Electric Comp	any, LLC						
	Address :	PO Drawer R							
		Columbia, South Carolina 29	9205						
	Contact:	Ms. Cynthia Teague	/203						
	Project:	Sealand Soil Sampling							
	Client Sample ID				Pı	roject:	WNUCSealand	1	
	Sample ID:	533288001				lient ID:	WNUC009		
	Matrix:	Soil							
	Collect Date:	26-JAN-21 14:55							
	Receive Date:	27-JAN-21							
	Collector:	Client							
	Moisture:	9.66%							
Parameter	Qua	lifier Result	DL	RL	Units	PF DF	Analyst Date	Time Batch	Method
Volatile Or	ganics								
Totals Tetra	achloroethylene V	OA only "Dry Weight Corrected"	"						
Tetrachloroeth	ylene	0.00242	0.000298	0.000896	mg/kg	0.809 1	PXY1 02/02/21	1531 2087144	1
The followi	ing Prep Methods	were performed:							
Method	Des	cription		Analyst	Date	Time	e Prep Batch		
SW846 5035	5035	Prep		PXY1	01/26/21	1455	2087142		
The follow	ing Analytical Me	thods were performed:							
Method		cription				Analyst Cor	nments		
1	SW84	46 8260D							
Surrogate/T	Tracer Recovery	Test		Res	sult	Nominal	Recovery%	Acceptable Li	imits
1,2-Dichloroet	thane-d4	Totals Tetrachloroethylene VOA only "	Dry Weight	0.0454	mg/kg	0.0500	101	(76%-127%)	1
Bromofluorob	enzene	Corrected" Totals Tetrachloroethylene VOA only "	'Drv Weight	0.0453	mg/kg	0.0500	101	(70%-130%)	1
		Corrected"						,	
Toluene-d8		Totals Tetrachloroethylene VOA only " Corrected"	Dry Weight	0.0446	mg/kg	0.0500	100	(81%-120%)	
Notes:									
Column he	aders are defined a	as follows:							
DF: Dilutio		Lc/LC: Critica	al Level						
DL: Detect		PF: Prep Facto							
	imum Detectable			• • •					
MDC: Min	imum Detectable	Concentration SQL: Sample	Quantitat	ion Limit					
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# **Certificate of Analysis**

				Certificat	e of A	nalysis		D		2 2021
	Company : Address :		inghouse Electric Drawer R	Company, LLC				Report Da	te: February	3, 2021
	Contact: Project:	Ms. (	mbia, South Caroli Cynthia Teague Ind Soil Sampling	ina 29205						
	Client Sample ID:	C-21	-b			Р	roject:	WNUCSealan	d	
	Sample ID:		88002				lient ID:	WNUC009		
	Matrix:	Soil								
	Collect Date:	26-JA	AN-21 15:01							
	Receive Date:	27-JA	AN-21							
	Collector:	Clien	ıt							
	Moisture:	12.59	б							
Parameter	Qual	ifier	Result	DL	RL	Units	PF DF	Analyst Date	Time Batch	Method
Volatile Or	ganics									
Totals Tetra	achloroethylene VC	A only	"Dry Weight Corr	rected"						
Tetrachloroeth	iylene	U	ND	0.000387	0.00116	mg/kg	1.02 1	PXY1 01/29/21	2038 2087144	1
The follow	ing Prep Methods w	vere per	formed:							
Method		ription			Analyst	Date	Time	-	1	
SW846 5035	5035 1	Prep			PXY1	01/26/2	1 1501	2087142		
The follow	ring Analytical Met	hods we	ere performed:							
Method	Desci	iption					Analyst Cor	mments		
1	SW84	5 8260D								
Surrogate/T	Tracer Recovery	Test				Result	Nominal	Recovery%	Acceptable Li	imits
1,2-Dichloroe			trachloroethylene VOA	only "Dry Weight	0.	0578 mg/kg	0.0500	100	(81%-124%)	)
Bromofluorob	enzene	Corrected Fotals Te Corrected	trachloroethylene VOA	only "Dry Weight	0.	0618 mg/kg	0.0500	106	(70%-130%)	)
Toluene-d8			trachloroethylene VOA	only "Dry Weight	0.	0581 mg/kg	0.0500	100	(81%-120%)	)
Notes:										
Column he	aders are defined as	s follow	/S:							
DF: Dilutio	on Factor		Lc/LC:	Critical Level						
DL: Detect			PF: Prep							
MDA: Min	imum Detectable A	ctivity	RL: Rep	oorting Limit						

MI MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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# **QC Summary**

**Report Date: February 3, 2021** 

Page 1 of 3

Westinghouse Electric Company, LLC PO Drawer R Columbia, South Carolina Ms. Cynthia Teague

Workorder: 533288

**Contact:** 

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range Anls	t Date Time
Volatile-GC/MS Batch 2087144 –								
QC1204743513 LCS Tetrachloroethylene	0.0500		0.0453	mg/kg		91	(68%-129%) PX	Y1 01/29/21 10:28
**1,2-Dichloroethane-d4	50.0		53.5	ug/L		107	(81%-124%)	
**Bromofluorobenzene	50.0		54.0	ug/L		108	(70%-130%)	
**Toluene-d8	50.0		52.0	ug/L		104	(81%-120%)	
QC1204745019 LCS Tetrachloroethylene	0.0500		0.0469	mg/kg		94	(70%-125%)	02/02/21 10:04
**1,2-Dichloroethane-d4	50.0		50.7	ug/L		101	(76%-127%)	
**Bromofluorobenzene	50.0		50.3	ug/L		101	(70%-130%)	
**Toluene-d8	50.0		50.4	ug/L		101	(81%-120%)	
QC1204743514 LCSD Tetrachloroethylene	0.0500		0.0459	mg/kg	1	92	(0%-20%)	01/29/21 10:56
**1,2-Dichloroethane-d4	50.0		52.0	ug/L		104	(81%-124%)	
**Bromofluorobenzene	50.0		52.0	ug/L		104	(70%-130%)	
**Toluene-d8	50.0		50.9	ug/L		102	(81%-120%)	
QC1204743512 MB Tetrachloroethylene		U	ND	mg/kg				01/29/21 13:22

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### **QC Summary**

Workorder: 533288								Page 2 of 3
Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Volatile-GC/MSBatch2087144								
**1,2-Dichloroethane-d4	50.0		51.2	ug/L		102	(81%-124%) PXY1	01/29/21 13:22
**Bromofluorobenzene	50.0		51.9	ug/L		104	(70%-130%)	
**Toluene-d8	50.0		51.4	ug/L		103	(81%-120%)	
QC1204745018 MB Tetrachloroethylene		U	ND	mg/kg				02/02/21 12:32
**1,2-Dichloroethane-d4	50.0		50.2	ug/L		100	(76%-127%)	
**Bromofluorobenzene	50.0		50.4	ug/L		101	(70%-130%)	
**Toluene-d8	50.0		50.7	ug/L		101	(81%-120%)	

#### Notes:

The Qualifiers in this report are defined as follows:

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B The target analyte was detected in the associated blank.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- JNX Non Calibrated Compound
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.

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## **QC Summary**

Workor	rder: 533288		_			_					Pag	e 3 of 3
Parmnai	me	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N1	See case narrative											
ND	Analyte concentration is not de	tected above the	detection lin	nit								
NJ	Consult Case Narrative, Data S	ummary package	e, or Project	Manager	concerning t	his qualifi	er					
Р	OrganicsThe concentrations b	between the prim	ary and conf	irmation (	columns/dete	ectors is >	40% differen	t. For HPLC	, the differ	ence is >7	0%.	
Q	One or more quality control crit	teria have not be	en met. Refe	r to the ap	pplicable nar	rative or I	DER.					
R	Sample results are rejected											
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.											
UJ	Compound cannot be extracted	ļ										
Х	Consult Case Narrative, Data S	ummary package	e, or Project	Manager	concerning t	his qualifi	er					
Y	QC Samples were not spiked w	ith this compour	ıd									
^	RPD of sample and duplicate ev	valuated using +,	/-RL. Conce	entrations	are <5X the	RL. Qual	lifier Not Apj	plicable for R	Radiochemi	istry.		
h	Preparation or preservation hole	ding time was ex	ceeded									
^ The R five time	licates that spike recovery limits Relative Percent Difference (RPD) les (5X) the contract required det sed to evaluate the DUP result.	) obtained from t	the sample du	uplicate (	(DUP) is eva	luated aga	ainst the acce	ptance criteri	ia when the	e sample is	greater	

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

#### Technical Case Narrative Westinghouse Electric Co, LLC SDG #: 533288

### **GC/MS Volatile**

<u>Product:</u> Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer <u>Analytical Method:</u> SW846 8260D <u>Analytical Procedure:</u> GL-OA-E-038 REV# 28 <u>Analytical Batch:</u> 2087144

**Preparation Method:** SW846 5035 **Preparation Procedure:** GL-OA-E-039 REV# 13 **Preparation Batch:** 2087142

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<b><u>Client Sample Identification</u></b>
533288001	C-21-a
533288002	C-21-b
1204743512	Method Blank (MB)
1204743513	Laboratory Control Sample (LCS)
1204743514	Laboratory Control Sample Duplicate (LCSD)
1204745018	Method Blank (MB)
1204745019	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on a "dry weight" basis.

#### **Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

#### **Technical Information**

#### Sample Re-extraction/Re-analysis

Sample 533288001 (C-21-a) was re-analyzed due to unacceptable surrogate or internal standard recoveries in the initial analysis. The re-analyses confirmed/and or passed and were reported.

#### **Radiochemistry**

Product: Dry Weight Preparation Method: ASTM D 2216 (Modified) Preparation Procedure: GL-OA-E-020 REV# 13 Preparation Batch: 2086192

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u> <u>Client Sample Identification</u>

533288001	C-21-a
533288002	С-21-b
1204741708	533382001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

#### Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

#### **<u>Certification Statement</u>**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Hage: 1 of 2				-						GFL I aboratories 11 C	11 C	
Project # Sealand Soil Sampling TCE Excavation	r				lbora	aboratories Lo	SLLC			2040 Savage Road		
GEL Quote #:WNUC009	50	0 5304%	gel.con		iistry   Radio	chemistry I Ra	diobioassay	Chemistry   Radiochemistry   Radiobioassay   Specialty Analytics		Charleston, SC 29407	407	
COC Number <sup>(1)</sup> .	•	~~~	Chain		stody ar	of Custody and Analytical Request	cal Req	uest		Phone: (843) 556-8171	8171	
PO # 4500778461, Line 1	GEL Worl	GEL Work Order Number:	•.		GEL Proj	<b>GEL Project Manager:</b>	er:			Fax: (843) 766-1178	78	
Polient Name: Westinghouse			Phone # 803	3.312.4171	1		Sai	Sample Analysis Requested <sup>(5)</sup>		ie number of cor	(Fill in the number of containers for each test)	
Troject/Site Name:			Fax# 803.69	95.3964		Shor	Should this	s			< Preservative Type (6)	be (6)
Address: 5801 Bluff Road, Hopkins, SC 29061						sam Cons	sample be considered:	L 1619/97				
Bollected By: Randy Crews KOry	Send Resu	Send Results To: teaguecj@westinghouse.com	westinghc	use.com		objy (H		(3940)671			Comments Note: extra sample is	ole is
88 88 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	date time	*Date Collected (mm-dd-vv)	*Time Collected (Military) (hhmm)	QC PI	Field San Filtered <sup>(3)</sup> Mat	Matrix Santo Radioactive Yes, please sup lestopic info.)	ro nwonX (7) asaH oldizzoq	Total number Tetrachlor			required for sample specific QC	iple
C-21-a		1/26/2021	1455	0	s							
C-21-b		1/26/2021	1501	5	s	so s		1 X				
	Chain of Cust	<b>Chain of Custody Signatures</b>						TAT Requested:	Normal:	Rush: X Sp	Specify: 5 days (1 week)	
Relinquished By (Signed) Date T	Time	Received by (signed)		Date	Time		Fax Resu	Fax Results: [ ] Yes [ x ] No				
1 Randy Crews 20-24-01-27-2021	1221	1 Secure Location	01-21	27-2021	10 36		Select D	Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1	] QC Summary [	] level 1 [ ] Level 2	vel 2 [] Level 3 [] Level 4	4
2 Secure Location 01-27-2021	140	2 7240		22	11	50	Addition	Additional Remarks:				
3 AUL 1.27. 31 1.42. 3. 1.54. 3. 1.54. 3. 1.50.	j Cuel e Sample Receip	3 N COSC	N.H.		121	15/2/2 Sample	For Lab Collection	Supple Collection Time Zone:     [] For Lab Receiving Use Only:     Custody Seal Intact?     [] Yes     [] No     Cooler Temp:     Z       Sumple Collection Time Zone:     [] Eastern     [] Pacific     [] Central     [] Mountain     [] Other:	Tustody Seal Intact? m []Pacific []	[] <i>Yes</i> [] <i>No</i> ] Central [] M	Cooler Temp: <u>2</u> °C lountain [] Other:	
1.) Chain of Custody Number = Client Determined		-										
2.) QC Cooks: N = Normal Sample, 1B = 1rp Blank, FU = Frield Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was not field filtered.	Freid Duplicate, Effor yes the sample wa	8 = Equipment Blank, 1 is field filtered or - N - 1	<b>WS</b> = Matrix S for sample was	pike Sample, not field filt	. MSD = Matr ered.	ix Spike Duplic	ate Sample, G	.= Grab, C = Composite				
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Water, W=Water, WL=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal	rt, SW=Surface Water	, WW=Waste Water, V	V=Water, ML	■Mise Liquie	l, SO=Soil, SI	)=Sediment, SI		Solid Waste, O=Oil, F=Filt	¤, P=Wipe, U=Urine, F=	Fecal, N=Nasal		
<ol> <li>Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).</li> <li>Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfarie Acid, HX = Hexene ST = Sodium Thiosulfate If no meservative is added = heave field bland.</li> </ol>	ed (i.e. 8260B, 6010B c Acid. SH = Sodium	(7470A) and number o Hvdroxide. SA = Sulfu	f containers pre ric Acid. AA =	ovided for ea	ch (i.e. <i>8260B</i> cid. <b>HX</b> = Her		(0.4 - 1). um Thiosulfat	e. If no precervative is adder	= leave field blank			
7) KNOWN OR POSSIBLE HAZARDS	Characteris	Characteristic Hazards	Listed Waste	Vaste			Other		Merch Version of the second	Please	Please provide any additional details	ils
RCRA Metals	FL = Flammable Cornesive	FL = Flammable/Ignitable	LW=Li	LW= Listed Waste	LW= Listed Waste		OT = Oth	OT= Other / Unknown	allower constrained and		below regarding handling and/or disposal	lisposal
As = Arsenic Hg= Mercury Ba = Barium Se= Selenium	RE = Reactive	ve	Waste code(s):	ode(s):	/·carcha		misc. health	(re rugarow p.1, aocestos, ver yuam, uruanis, outer misc. health hazards, etc.) Deceminism:	y		concerns. (i.e., Origin v) sumprets), type of site collected from, odd matrices, etc.)	etc.)
E	TSCA Regulated	lated				11	-4.000					
	rus = roiy bibh	Polycniorinated biphenvls										

				532764
<b>EEE</b>   Laboratories LLC				SAMPLE RECEIPT & REVIEW FORM
Client: WALLE			Is	DG/AR/COC/Work Order:
Received By: TYE			1	ate Received:
			T	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Corrige and Tracking Number				
Carrier and Tracking Number				
Suspected Hazard Information	Ycs	ź	"1	f Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		V	1	Izard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
B) Did the client designate the samples are to be received as radioactive?			ka	C notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		$\hat{v}$	N:	iximum Net Counts Observed <sup>®</sup> (Observed Counts - Area Background Counts):CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		V	1	C notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		V	Ľ	For E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:
Sample Receipt Criteria	Yes	VN NV	°Z	
1 Shipping containers received intact and sealed?	Ń	2	7	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	Ž	2		Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within $(0 \le 6 \text{ deg. } C)$ ?*		$\left  \right $		Preservation Method, Wet fee Jacks Dry ice None Other: *all temperatures are resorted in Celsius TEMP:
4 Daily check performed and passed on IR temperature gun?	V	前辺		Temperature Device Serial #: <u>IR3-19</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	Y			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	V			Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes NoNA(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes NoNA(If unknown, select No) Are iquid VOA vials free of headspace? YesNoNA(If unknown, select No)
8 Samples received within holding time?			_	Sample ID's and containers affected: ID's aud tests affected;
	V.		_	
Sample ID's on COC match ID's on bottles?	V			D's and containers affected:
Date & time on COC match date & time on bottles?     Number of containers received match	4	1		Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
number indicated on COC?				Circle Applicable: No container count on COC Other (describe)
<sup>2</sup> Are sample containers identifiable as GEL provided by use of GEL labels?	Į.		Q	
3 COC form is properly signed in relinquished/received sections?	N		Þ	Circle Applicable: Not relinquisted Other (describe)
mments (Use Continuation Form if needed):	_ <b>N</b> .	1		
PM (or PMA)	review	v: La	itial	sDateA&/A Pave of
				1)

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019–165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-18
Utah NELAP	SC000122020-34
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

List of current GEL Certifications as of 03 February 2021



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407 P 843.556.8171 F 843.766.1178

gel.com

February 16, 2021

Ms. Cynthia Teague Westinghouse Electric Company, LLC PO Drawer R Columbia, South Carolina 29205

Re: Sealand Soil Sampling Work Order: 534641

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 10, 2021. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Ludy Fabra

Lindsay Fabra Project Manager

Purchase Order: PO 4500778461 Enclosures



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#### Certificate of Analysis Report for

WNUC009 Westinghouse Electric Co, LLC (4500778461)

Client SDG: 534641 GEL Work Order: 534641

#### The Qualifiers in this report are defined as follows:

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Lindsay Fabra.

Ludy Fabra

Reviewed by



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407

2040 Savage Road Charleston, SC 29407 **P** 843.556.8171 **F** 843.766.1178

# **Analytical Detections Summary**

SDG/Repo Project ID		41 and Soil Sampling			ectric Co, LLC (4500778461)	
GEL ID	Client Sample	ID Method	CAS A	nalyte	Result	Q
534641001	C-21-a-1	SW846 8260D	127-18-4 T	etrachloroethylene	0.00226 mg/kg	
534641002	C-21-a-2	SW846 8260D	127-18-4 T	etrachloroethylene	0.00117 mg/kg	

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# **Certificate of Analysis**

				Certificat		ai y 515				
								Report Da	te: February	16, 2021
	Company : Address :		nghouse Electric rawer R	c Company, LLC						
		Colun	nbia, South Caro	olina 29205						
	Contact:	Ms. C	ynthia Teague							
	Project:	Sealar	nd Soil Sampling	g						
	Client Sample ID:	C-21-a	a-1			Pı	oject:	WNUCSealan	d	
	Sample ID:	53464	1001			С	lient ID:	WNUC009		
	Matrix:	Soil								
	Collect Date:	08-FE	B-21 13:30							
	Receive Date:	10-FE	B-21							
	Collector:	Client								
	Moisture:	11.7%	1							
Parameter	Qual	ifier	Result	DL	RL	Units	PF DF	Analyst Date	Time Batch	Method
Volatile Or	~ ~				112	emis		1	Third Dutch	
	achloroethylene VC	A only	"Dry Weight Co	rrected"						
Tetrachloroeth	•	A only	0.00226	0.000230	0.000690	mg/kg	0.610 1	JP1 02/12/21	0139 2092093	5 1
The followi	ng Prep Methods w	ere perf	ormed:			00				
Method	0 1	ription			Analyst	Date	Time	Prep Batch	1	
SW846 5035	5035 1				JP1	02/08/21		2092092	-	
The follow	ing Analytical Met	nods wei	re performed:							
Method	0 1	iption					Analyst Cor	nments		
1		5 8260D								
Surrogate/T	racer Recovery	Test			F	Result	Nominal	Recovery%	Acceptable L	imits
1,2-Dichloroet		Fotals Teti Corrected"		DA only "Dry Weight	0.03	32 mg/kg	0.0500	96	(76%-127%)	)
Bromofluorob	enzene	Fotals Teti	rachloroethylene VC	DA only "Dry Weight	0.03	36 mg/kg	0.0500	97	(70%-130%)	)
Toluene-d8	-	Corrected" Fotals Tetr Corrected"	rachloroethylene VC	OA only "Dry Weight	0.03	39 mg/kg	0.0500	98	(81%-120%)	)
Notes:										
Column ha	aders are defined as	follow								
DF: Dilutio		sionows		: Critical Level						
DL: Detect				ep Factor						
	imum Detectable A	ctivity		eporting Limit						

MDA: Minimum Detectable Activity MDC: Minimum Detectable Concentration RL: Reporting Limit SQL: Sample Quantitation Limit

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## **Certificate of Analysis**

Report Date: February 16, 2021 Company : Westinghouse Electric Company, LLC Address : PO Drawer R Columbia, South Carolina 29205 Contact: Ms. Cynthia Teague Project: Sealand Soil Sampling Client Sample ID: WNUCSealand C-21-a-2 Project: Sample ID: 534641002 Client ID: WNUC009 Matrix: Soil Collect Date: 08-FEB-21 13:20 10-FEB-21 Receive Date: Collector: Client Moisture: 14.6% Qualifier RL Parameter DL Units PF DF Analyst Date Time Batch Method Result Volatile Organics Totals Tetrachloroethylene VOA only "Dry Weight Corrected" 0.00117 0.000365 0.00109 mg/kg Tetrachloroethylene 0.935 1 JP1 02/12/21 0204 2092093 1 The following Prep Methods were performed: Method Prep Batch Description Analyst Date Time SW846 5035 5035 Prep JP1 02/08/21 1320 2092092 The following Analytical Methods were performed: Method Description Analyst Comments SW846 8260D Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits 1,2-Dichloroethane-d4 Totals Tetrachloroethylene VOA only "Dry Weight 0.0522 mg/kg 0.0500 95 (76% - 127%)Corrected' Bromofluorobenzene Totals Tetrachloroethylene VOA only "Dry Weight 0.0527 mg/kg 0.0500 96 (70%-130%) Corrected" Toluene-d8 Totals Tetrachloroethylene VOA only "Dry Weight 0.0540 mg/kg 0.0500 99 (81%-120%) Corrected" Notes: Column headers are defined as follows: DF: Dilution Factor Lc/LC: Critical Level **DL:** Detection Limit PF: Prep Factor

MDA: Minimum Detectable Activity MDC: Minimum Detectable Concentration PF: Prep Factor RL: Reporting Limit SQL: Sample Quantitation Limit

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## **Certificate of Analysis**

Report Date: February 16, 2021 Westinghouse Electric Company, LLC Company : Address : PO Drawer R Columbia, South Carolina 29205 Contact: Ms. Cynthia Teague Project: Sealand Soil Sampling Client Sample ID: C-21-a-1 Project: WNUCSealand Sample ID: 534641001 Client ID: WNUC009 Matrix: Soil Collect Date: 08-FEB-21 13:30 10-FEB-21 Receive Date: Collector: Client Moisture: 11.7% Qualifier MDC RL Units PF DF Analyst Date Parameter Result Uncertainty Time Batch Method Notes: Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma). Column headers are defined as follows:

DF: Dilution FactorLc/LC: Critical LevelDL: Detection LimitPF: Prep FactorMDA: Minimum Detectable ActivityRL: Reporting LimitMDC: Minimum Detectable ConcentrationSQL: Sample Quantitation Limit

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## **Certificate of Analysis**

Report Date: February 16, 2021 Westinghouse Electric Company, LLC Company : Address : PO Drawer R Columbia, South Carolina 29205 Contact: Ms. Cynthia Teague Project: Sealand Soil Sampling Client Sample ID: C-21-a-2 Project: WNUCSealand Sample ID: 534641002 Client ID: WNUC009 Matrix: Soil Collect Date: 08-FEB-21 13:20 10-FEB-21 Receive Date: Collector: Client Moisture: 14.6% Qualifier MDC RL Units PF DF Analyst Date Parameter Result Uncertainty Time Batch Method Notes: Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma). Column headers are defined as follows:

DF: Dilution FactorLc/LC: Critical LevelDL: Detection LimitPF: Prep FactorMDA: Minimum Detectable ActivityRL: Reporting LimitMDC: Minimum Detectable ConcentrationSQL: Sample Quantitation Limit

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# **QC Summary**

**Report Date: February 16, 2021** 

Page 1 of 3

Westinghouse Electric Company, LLC PO Drawer R Columbia, South Carolina Ms. Cynthia Teague

Workorder: 534641

**Contact:** 

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MS Batch 2092093 ——									
QC1204752977 LCS Tetrachloroethylene	0.0500		0.0521	mg/kg		104	(70%-125%)	JP1	02/11/21 18:04
**1,2-Dichloroethane-d4	50.0		48.0	ug/L		96	(76%-127%)		
**Bromofluorobenzene	50.0		46.9	ug/L		94	(70%-130%)		
**Toluene-d8	50.0		47.3	ug/L		95	(81%-120%)		
QC1204752975 MB Tetrachloroethylene		U	ND	mg/kg					02/11/21 19:45
**1,2-Dichloroethane-d4	50.0		47.6	ug/L		95	(76%-127%)		
**Bromofluorobenzene	50.0		47.4	ug/L		95	(70%-130%)		
**Toluene-d8	50.0		47.9	ug/L		96	(81%-120%)		
QC1204752978 533811010 PS Tetrachloroethylene	50.0 U	ND	45.7	ug/L		91	(46%-134%)		02/12/21 02:29
**1,2-Dichloroethane-d4	50.0	45.5	48.0	ug/L		96	(76%-127%)		
**Bromofluorobenzene	50.0	50.1	51.7	ug/L		103	(70%-130%)		
**Toluene-d8	50.0	49.2	51.1	ug/L		102	(81%-120%)		
QC1204752979 533811010 PSD Tetrachloroethylene	50.0 U	ND	45.2	ug/L	1	90	(0%-20%)		02/12/21 02:54

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## **QC Summary**

Workorder: 534641									Page 2 of 3
Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile-GC/MSBatch2092093									
**1,2-Dichloroethane-d4	50.0	45.5	47.7	ug/L		95	(76%-127%)	JP1	02/12/21 02:54
**Bromofluorobenzene	50.0	50.1	52.3	ug/L		105	(70%-130%)		
**Toluene-d8	50.0	49.2	48.8	ug/L		98	(81%-120%)		

#### Notes:

The Qualifiers in this report are defined as follows:

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B The target analyte was detected in the associated blank.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- JNX Non Calibrated Compound
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- $N\!/\!A$   $\,$  RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- UJ Compound cannot be extracted
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound

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### **QC Summary**

Workorder:	534641								Page 3 of 3
Parmname		NOM	Sample Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time

RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable. ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

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	QC	Summary
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	Westinghouse F	lectric Company, LLC	QC	Summa	<u>ry</u>		Report Dat	e: February 1	16, 2021		
	PO Drawer R Columbia, Sout									Page	e 1 of 2
Contact	,										
Workor	der: 534641										
Parmnar	ne	NOM	Sample Qual	QC	Units	RPD%	REC%	Range A	nlst	Date	Time
Notes:											
The Qua	alifiers in this report are de	efined as follows:									
**	Analyte is a Tracer comp	oound									
<	Result is less than value	reported									
>	Result is greater than value	ue reported									
BD	Results are either below t	the MDC or tracer recove	ery is low								
FA	Failed analysis.										
Н	Analytical holding time v	was exceeded									
J	See case narrative for an	explanation									
J	Value is estimated										
Κ	Analyte present. Reported	d value may be biased hig	gh. Actual value	s expected to	be lower.						
L	Analyte present. Reported	d value may be biased lov	w. Actual value is	s expected to	be higher.						
М	M if above MDC and les	s than LLD									
М	REMP Result > MDC/Cl	L and < RDL									
N/A	RPD or %Recovery limit	ts do not apply.									
N1	See case narrative										
ND	Analyte concentration is	not detected above the de	etection limit								
NJ	Consult Case Narrative, I	Data Summary package, o	or Project Manag	er concerning	this qualifi	er					
Q	One or more quality cont	rol criteria have not been	met. Refer to the	applicable n	arrative or I	DER.					
R	Sample results are rejected	ed									
U	Analyte was analyzed for	r, but not detected above	the MDL, MDA,	MDC or LOI	D.						
UI	Gamma SpectroscopyU	Incertain identification									
UJ	Gamma SpectroscopyU	Incertain identification									
UL	Not considered detected.	The associated number is	s the reported cor	centration, w	hich may be	e inaccurate	e due to a low	bias.			
Х	Consult Case Narrative, I	Data Summary package, o	or Project Manag	er concerning	this qualifi	er					
Y	Other specific qualifiers	were required to properly	define the result	s. Consult cas	e narrative.						
^	RPD of sample and dupli	icate evaluated using +/-F	RL. Concentratio	ns are <5X th	e RL. Qual	lifier Not A	pplicable for I	Radiochemistr	y.		

h Preparation or preservation holding time was exceeded

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### **QC Summary**

Workorder:	534641									Page 2 of 2
Parmname		NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or % RPD not applicable. ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the

RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

#### Technical Case Narrative Westinghouse Electric Co, LLC SDG #: 534641

### **GC/MS Volatile**

<u>Product:</u> Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer <u>Analytical Method:</u> SW846 8260D <u>Analytical Procedure:</u> GL-OA-E-038 REV# 28 <u>Analytical Batch:</u> 2092093

<u>Preparation Method:</u> SW846 5035 <u>Preparation Procedure:</u> GL-OA-E-039 REV# 13 <u>Preparation Batch:</u> 2092092

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	Client Sample Identification
534641001	C-21-a-1
534641002	C-21-a-2
1204752975	Method Blank (MB)
1204752977	Laboratory Control Sample (LCS)
1204752978	533811010(NonSDG) Post Spike (PS)
1204752979	533811010(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on a "dry weight" basis.

#### **Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

### **Radiochemistry**

Product: Dry Weight Preparation Method: ASTM D 2216 (Modified) Preparation Procedure: GL-OA-E-020 REV# 13 Preparation Batch: 2091638

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	Client Sample Identification
534641001	C-21-a-1
534641002	C-21-a-2
1204752056	534641001(C-21-a-1) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

#### **Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

#### **Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Date: 1 of 1 Droject # Sealand Soil Sampling TCE Excavation					ahoratories	nipe I I	C		GEL Laboratories,	GEL Laboratories, LLC	
GCC NL. (1).		1HBHCG	mosleg	°	nistry   Radiochen	istry   Radiobioas	Chemistry I Radiochemistry I Rediobioassay I Specialty Analytics		Charleston, SC 29407	SC 29407	
PO # 4500778461, Line 1	GEL We	GEL Work Order Number:			or oustouy and Analytical request GEL Project Manager:	Manager:	ednesi		Phone: (843) 556-8171 Fax: (843) 766-1178	s) 556-8171 766-1178	
Client Name: Westinghouse			Phone # 803.312.4171	03.312.41	71		Sample Analysis Requested <sup>(5)</sup>	equested <sup>(5)</sup> (Fill in	the number	(Fill in the number of containers for each test)	
Croject/Site Name:			Fax # 803.695.3964	695.3964		Should this	s			C Preservative Type (6)	
Address: 5801 Bluff Road, Hopkins, SC 29061						sample be considered:	L				
Collected By: Randy Crews FCARUS		Send Results To: teaguecj@westinghouse.com	@westingh	ouse.com		- лјd Л)	1005 Jo			Comments Note: extra samule is	
E Sample ID * For composites - indicate start and stop date time	date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmn)	QC Code (2) F	Field Sample	Radionctive yes, please sup isotopic info.) (7) Known or	Potal number Tetrachlord Tetrachlord			required for sample specific QC	
C-21-a-1		2/8/2021	1330	Ð	so						
C-21-a-2		2/8/2021	1320	G	so						T
											T
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											T
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	Chain of Cu	<b>Chain of Custody Signatures</b>					TAT Requested:	sted: Normal:		Specify: 5 days (1 week)	
Date	Time	Received by (signed)		Date	Time	Fax F	Fax Results: [ ] Yes [ x ] No	No			T
1 Randy Crews 72 Card 02-10-2021	(022	1 Secure Location		02-10-2021	1022	Selec	Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1	A [ ] QC Summary	[ ] level 1	[ ] Level 2 [ ] Level 3 [ ] Level 4	T
2 Secure Location 02-10-2021	104	2 M	-2112	5	Curl	Addit	Additional Remarks:				
3 4/10 2. 40 2. 40 3. 1535 3 2	<u>1535</u> e Sample Recei	Xa	<u> ~ ~ ~ [</u> [	1210	123	- For I Sample Collect	For Lab Receiving Use Only: Custody Seal Intact? [] Yes ollection Time Zone: [] Eastern [] Pacific [] Centra	v: Custody Seal Intaci astern [1] Pacific	<i>l</i> ? [] Yes [	- For Lab Receiving Use Only: Custody Seal Intact? [] Yes [] No Cooler Temp: U °C Sample Collection Time Zone: [] Eastern [] Pacific [] Central [] Mountain [] Other	
1.) Chain of Custody Number = Client Determined		N	X			-	•				Τ
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite	= Field Duplicate,	EB = Equipment Blank,	MS = Matrix S	spike Sample	, MSD = Matrix Sp	ike Duplicate Samp	le, G = Grab, C = Composite				
3.) Field Fittered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.	- for yes the sample	was field filtered or - N -	for sample wa	s not field fil	tered.						
4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sedment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal	er, SW≃Surface Wa	ter, WW=Waste Water,	W=Water, ML	-Mise Liqui	d, SO=Soil, SD=Se	diment, SL=Sludge,	SS=Solid Waste, O=Oil, F=	Filter, P=Wipe, U=Urine, F	r=Fecal, N=Nasa	al	
<ol> <li>Sample Analysis Requested: Analytical method requested (i.c. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B 7470A - 1).</li> <li>Preservative Twoe: HA = Hydrohloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide SA = Subfinite Acid, AX = A scorebic Acid, HX = However ST = Sodium Triponofeco Acid, SL = 2, 11, 12, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14</li></ol>	ted (i.e. 8260B, 601 ic Acid. SH = Sodiu	0B/7470A) and number of Hydroxide SA = Suff	of containers pr	ovided for ea	ach (i.e. <i>8260B</i> - 3, cid HX = Hevene	6010B:7470A - 1). ST = Sodium Thior	ulfria fina amonanatina ia a				
7) KNOWN OR POSSIBLE HAZARDS	Character	Characteristic Hazards	It isted Waste	Waste		Dibut Tilliou		laca = leave held blank			and a second
RCRA Metals RS = Arsenic Hg= Mercury Ba = Barium Se= Selenium	FL = Flammable CO = Corrosive RE = Reactive	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW= Listed W (F.K.P and U-1 Waste code(s):	LW= Listed Waste (F,K,P and U-listed Waste code(s):	LW = Listed Waste (F.K.P and U-listed wastes.) Waste code(s):	0T= 0T= misc.	OT= Other / Unknown OT= Other / Unknown (i.e.: High/low pH. asbestos, beryllium, irritants, other misc. heath hazards, etc.)	beryllium, irritants, o		Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)	7
Cd = Cadmiun Ag= Silver Cr = Chromium MD- Mico DCD A models	TSCA Re	TSCA Regulated									
		roiyeniormated biphenyls									
								2010년 - 2010년 2010년 - 2010년 - 2010년 2010년 - 2010년			

~					
SAMPLE	RECEIPT	&	REVIEW	FOR	M

Cli	ent: WNUC			Ten	SAMPLE RECEIPT & REVIEW FORM
┢──	ceived By: ZKW				te Received: 2/10/24
	Carrier and Tracking Number				Circle Applicable: FedEx Express FedEx Ground UPS Field Services Other
Sus	pected Hazard Information	Yes	No No	*If	Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)S	hipped as a DOT Hazardous?		~	Haz	ard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No
	Did the client designate the samples are to be ived as radioactive?		-		C notation or radioactive stickers on containers equal client designation.
	Did the RSO classify the samples as oactive?		~	-Ma	ximum Net Counts Observed* (Observed Counts - Area Background Counts):
	Did the client designate samples are hazardous?				C notation or hazard labels on containers equal client designation. or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other;
E) I	Did the RSO identify possible hazards?				
	Sample Receipt Criteria Shipping containers received intact and	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items) Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
1 2	sealed? Chain of custody documents included				Circle Applicable: Client contacted and provided COC COC created upon receipt
	with shipment? Samples requiring cold preservation	-			Preservation Method: Vet D Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:
4	within $(0 \le 6 \text{ deg. C})$ ?* Daily check performed and passed on IR temperature gun?	1			Temperature Device Serial #: IR3-18           Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	~			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	~			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	-			If Yes, are Encores or Soil Kits present for solids? Yes <u>No</u> NA (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials free of headspace? Yes No NA Sample ID's and containers affected:
8	Samples received within holding time?	~			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	1			ID's and containers affected:
10	Date & time on COC match date & time on bottles?		-		Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
	Number of containers received match number indicated on COC? Are sample containers identifiable as	7			Circle Applicable: No container count on COC Other (describe)
12 13	GEL provided by use of GEL labels? COC form is properly signed in relinquished/received sections?	,		/	Circle Applicable: Not relinquished Other (describe)
******	ments (Use Continuation Form if needed):	<b>.</b>		I	

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019–165
Pennsylvania NELAP	68–00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122020-34
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

List of current GEL Certifications as of 16 February 2021



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407 P 843.556.8171 F 843.766.1178

gel.com

February 26, 2021

Ms. Cynthia Teague Westinghouse Electric Company, LLC PO Drawer R Columbia, South Carolina 29205

Re: Sealand Soil Sampling Work Order: 535611

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 24, 2021. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Ludy Fabra

Lindsay Fabra Project Manager

Purchase Order: PO 4500778461 Enclosures



2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

#### Certificate of Analysis Report for

WNUC009 Westinghouse Electric Co, LLC (4500778461)

Client SDG: 535611 GEL Work Order: 535611

#### The Qualifiers in this report are defined as follows:

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Lindsay Fabra.

Ludy Fabra

Reviewed by

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

# **Certificate of Analysis**

				C El unical	c of Alle	ai y 515				
								Report Da	te: February 2	.6, 2021
	Company : Address :		inghouse Electric C Drawer R	Company, LLC						
	_		mbia, South Carolii	na 29205						
	Contact:		Cynthia Teague							
	Project:		and Soil Sampling				•		•	
	Client Sample ID:		-a-1-North				5	WNUCSealan	d	
	Sample ID:		11001			C	lient ID:	WNUC009		
	Matrix:	Soil								
	Collect Date:		EB-21 09:08							
	Receive Date:	24-FI	EB-21							
	Collector:	Clien	ıt							
	Moisture:	13.5%	б							
Parameter	Qual	fier	Result	DL	RL	Units	PF DF	Analyst Date	Time Batch	Metho
Volatile Or	ganics									
	achloroethylene VC	A only	"Dry Weight Corre	ected"						
Tetrachloroeth		U	ND	0.000308	0.000924	mg/kg	0.800 1	PXY1 02/25/21	1206 2096146	1
The followi	ng Prep Methods w	ere per	formed:							
Method	Desc	ription			Analyst	Date	Time	Prep Batch	1	
SW846 5035	5035 I				PXY1	02/23/21	0908	2096144		
The follow	ing Analytical Met	nods we	ere performed:							
Method	Descr	iption					Analyst Cor	nments		
1	SW846	5 8260D					<i>2</i>			
Surrogate/T	racer Recovery	Test			R	Result	Nominal	Recovery%	Acceptable Lin	mits
1,2-Dichloroet			trachloroethylene VOA	only "Dry Weight	0.045	59 mg/kg	0.0500	99	(76%-127%)	
Bromofluorob	enzene	Corrected Fotals Te Corrected	trachloroethylene VOA	only "Dry Weight	0.045	50 mg/kg	0.0500	97	(70%-130%)	
Toluene-d8	-		trachloroethylene VOA	only "Dry Weight	0.044	48 mg/kg	0.0500	97	(81%-120%)	
Notes:										
Column b-	adams and defined as	follor								
DF: Dilutio	aders are defined as	10110W		Critical Level						
DL: Detect			PF: Prep							
	imum Detectable A	ctivity		orting Limit						

MDA: Minimum Detectable Activity MDC: Minimum Detectable Concentration RL: Reporting Limit SQL: Sample Quantitation Limit

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# **Certificate of Analysis**

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SQL: Sample Quantitation Limit

MDC: Minimum Detectable Concentration

Page 4 of 12 SDG: 535611

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# **QC Summary**

**Report Date: February 26, 2021** 

Page 1 of 3

Westinghouse Electric Company, LLC PO Drawer R Columbia, South Carolina Ms. Cynthia Teague

Workorder: 535611

**Contact:** 

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Volatile-GC/MS Batch 2096146 —								
QC1204759891 LCS Tetrachloroethylene	0.0500		0.0481	mg/kg		96	(70%-125%) PXY1	02/25/21 10:10
**1,2-Dichloroethane-d4	50.0		44.5	ug/L		89	(76%-127%)	
**Bromofluorobenzene	50.0		49.3	ug/L		99	(70%-130%)	
**Toluene-d8	50.0		51.1	ug/L		102	(81%-120%)	
QC1204759890 MB Tetrachloroethylene		U	ND	mg/kg				02/25/21 11:08
**1,2-Dichloroethane-d4	50.0		46.3	ug/L		93	(76%-127%)	
**Bromofluorobenzene	50.0		48.0	ug/L		96	(70%-130%)	
**Toluene-d8	50.0		48.4	ug/L		97	(81%-120%)	
QC1204759892 535667001 PS Tetrachloroethylene	50.0 U	ND	40.3	ug/L		81	(46%-134%)	02/25/21 20:25
**1,2-Dichloroethane-d4	50.0	50.3	49.8	ug/L		100	(76%-127%)	
**Bromofluorobenzene	50.0	48.7	49.1	ug/L		98	(70%-130%)	
**Toluene-d8	50.0	48.3	47.7	ug/L		95	(81%-120%)	
QC1204759893 535667001 PSD Tetrachloroethylene	50.0 U	ND	41.1	ug/L	2	82	(0%-20%)	02/25/21 20:54

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## **QC Summary**

Workorder: 535611								Page 2 of 3
Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Volatile-GC/MSBatch2096146								
**1,2-Dichloroethane-d4	50.0	50.3	47.8	ug/L		96	(76%-127%) PXY1	02/25/21 20:54
**Bromofluorobenzene	50.0	48.7	49.2	ug/L		98	(70%-130%)	
**Toluene-d8	50.0	48.3	46.7	ug/L		93	(81%-120%)	

#### Notes:

The Qualifiers in this report are defined as follows:

\*\* Analyte is a surrogate compound

-----

- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B The target analyte was detected in the associated blank.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- JNX Non Calibrated Compound
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- $N\!/\!A$   $\,$  RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- UJ Compound cannot be extracted
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound

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### **QC Summary**

Workorder:	535611								Page 3 of 3
Parmname		NOM	Sample Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time

RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

۸

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable. ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

#### Technical Case Narrative Westinghouse Electric Co, LLC SDG #: 535611

### **GC/MS Volatile**

<u>Product:</u> Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer <u>Analytical Method:</u> SW846 8260D <u>Analytical Procedure:</u> GL-OA-E-038 REV# 28 <u>Analytical Batch:</u> 2096146

**Preparation Method:** SW846 5035 **Preparation Procedure:** GL-OA-E-039 REV# 13 **Preparation Batch:** 2096144

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	Client Sample Identification
535611001	C-21-a-1-North
535611002	C-21-a-2-South
1204759890	Method Blank (MB)
1204759891	Laboratory Control Sample (LCS)
1204759892	535667001(NonSDG) Post Spike (PS)
1204759893	535667001(NonSDG) Post Spike Duplicate (PSD)

The samples in this SDG were analyzed on a "dry weight" basis.

#### **Data Summary:**

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

### **Radiochemistry**

Product: Dry Weight Preparation Method: ASTM D 2216 (Modified) Preparation Procedure: GL-OA-E-020 REV# 13 Preparation Batch: 2095952

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	Client Sample Identification
535611001	C-21-a-1-North
535611002	C-21-a-2-South

The samples in this SDG were analyzed on an "as received" basis.

#### **Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

#### **Miscellaneous Information**

#### **Additional Comments**

The duplicate for sample 535611001 was accidentally spilled when taking dry weights. The DUP has been removed as there is no accurate data and no additional sample to dry. 535611001 (C-21-a-1-North).

#### **Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

page: 1 of 1				-	-					GEL I	GEL Laboratories, LLC	ss, LLC		
Conciliation of the second sec				-adoratories LLC	JION	es ll	S			2040	2040 Savage Road	ad		
COC Number (I).		gel.com Chain	ີ ~	Chemistry I Radiochemistry I Radiobioassay I Specie of Custody and Analytical Reginest	ochemistry nd Ana	I Radiobioa	Ssay   Spe	Chemistry I Radiochemistry I Radiobioassay I Specialty Analytics Custody and Analytical Rennest		Charle	Charleston, SC 29407		535611	
	GEL Work Order Number:			GEL Project Manager:	ject Ma	nager:				Fax: ()	Fax: (843) 766-1178			
Olient Name: Westinghouse		Phone # 803.312.4171	03.312.41	71			Sample	Sample Analysis Requested <sup>(5)</sup>		in the nur	nber of co	ontainers 1	(Fill in the number of containers for each test)	
Hoject/Site Name:		Fax # 803.695.3964	695.3964			Should this	10,665,063,6						< Preservative Type (6)	(9
Address: 5801 Bluff Road, Hopkins, SC 29061						sample be considered:								2
Gollected By: Randy Crews RCAR Send	Send Results To: teaguecj@westinghouse.com	Dwestingh	ouse.com		(II)	Álq	Lds	ուրչու					Comments Note: extra sample is	.2
E Sample ID * For composites - indicate start and stop date/time	*Date Collected (mu-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (3) I	Field Sa Filtered <sup>(3)</sup> Ma	Matrix (3) Matrix (3)	yes, please sup isotopic info.) (7) Known or	nsaH əldizeoq Tədmun latoT	Tetrachlord					required for sample specific QC	ີ <b>ບ</b>
C-21-a-1-North	2/23/2021	8060	U		so		1	X						
C-21-a-2-South	2/23/2021	09160	IJ		so		-	X						
	<b>Chain of Custody Signatures</b>							TAT Requested:	d: Normal:	Rush:	×	Specify: 2 days TOT	davs TOT	
	Received by (signed)		Date	Time		Fax I	Fax Results: [ ] Yes	Yes [x]No						
1 Randy Crews 72 CUL 202-24-2021 0738	1 Secure Location	02-24-	24-2021	09238	3	Selec	t Deliver	Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1	1 QC Summar	v []leve	d 1 []Level2		[] Level 3 [] Level 4	Τ
2 Secure Location 02-24-2021	7		24/27		315	Addi	Additional Remarks:	marks:				1	1	
<sup>3</sup> W 3 W 2 V 2 V 2 V 2 V 2 V 2 V 2 V 2 V 2 V 2	eccept & Review form (SI	D. D.C.	IN 2	242	IS IS	$\overline{}$	Lab Rece tion Tim	Sell For Lab Receiving Use Only:: Custody Seal Intact? [] Yes Sample Collection Time Zone: [] Eastern [] Pacific [] Centra	Tustody Seal In m [] Pacific	<u>act? [] Yes</u> [] Central		<i>Cooler</i> ountain	Temp: 1 °C	
1.) Chain of Custody Number = Client Determined														
2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite	cate, <b>EB</b> = Equipment Blank,	MS = Matrix S	pike Sample	, MSD = Mat	rix Spike Dı	plicate Samp	ole, G = Gra	b, C = Composite						
<ol> <li>Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was field filtered.</li> <li>Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water WW=Water WI = Mise I innid SO=Soli SO=Soli sone of a contract sone contract sone of a contract sone of a contract sone of a co</li></ol>	nple was field filtered or - N - e Water, WW=Waste Water 1	for sample was W=Water ML	i not field filtered.	tered. d SO=Soit S	0-Sodimon	ct -ctudae	F:1-3-33			- - 1	•			
5.) Sample Analysis Requested: Analytical method requested (i.e. <b>\$260B, 6010B/7470A)</b> and number of containers provided for each (i.e. <i>\$260B + 3, 6010B/7470A + 1</i> ).	, 6010B/7470A) and number o	f containers pr	ovided for e	ach (i.e. <i>82601</i>	s - 3, 6010H	7470A - 1).	ninc-se '	wase, <b>V</b> ~Oa, r~Fule	r, r≁wipe, u≃um	e, r≖recal, N	t≕Nasal			
6) Preservative Type: HA = Hydrochlorie Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Suffurie Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank	Sodium Hydroxide, SA = Sulfu	ric Acid, AA	Ascorbic A	cid, HX = He	xane, ST =	Sodium Thio:	sulfate, If m	o preservative is added	<ul> <li>leave field blank</li> </ul>					
	Characteristic Hazards FL = Flammable/Ignitable	Listed Waste LW= Listed W	Listed Waste LW= Listed Waste	e		Other OT=(	Other OT= Other / Unknown	Jnknown			Please	e provide a regarding	Please provide any additional details below regarding handling and/or disnosal	losal
INCLEA Metals     CO = (       As = Arsenic     Hg= Mercury     RE = R       Ba = Barium     Se= Selenium	CO = Corrosive RE = Reactive	(F.K.P and Waste code	md U-list ode(s):	(F.K.P and U-listed wastes.) Waste code(s):		(i.e.: misc. Desci	(i.e.: High/low misc. health hu Description:	(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:	yllium, irritant	, other	conce of site	erns. (i.e.: 0 collected)	concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)	8 🔿
nium Ag= Silver mium MR= Misc. RCRA metals	TSCA Regulated PCB = Polychlorinated													
Pb = Lead	biphenyls													
											SERVERSE STREET			
	CEE Laboratories LLC													
---------	---	------------	----------	--------	---									
г	- I AL A				SAMPLE RECEIPT & REVIEW FORM									
ľ	Client: WNUC	•			SDG/AR/COC/Work Order: 535611									
4	Received By: TVE			_	Date Received: 004 21									
	Carrier and Tracking Number				Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other									
s	uspected Hazard Information	Ycs	;	8	If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.									
A	Shipped as a DOT Hazardous?		k	1	Jazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? YesNo									
B re	Did the client designate the samples are to be ecived as radioactive?		ľ	10	OC notation or radioactive stickers on containers equal client designation,									
C a	Did the RSO classify the samples as lioactive?		L	K	laximum Net Counts Observed " (Observed Counts - Area Background Counts):CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3									
D	Did the client designate samples are hazardous	:7	l	_ /	D or E is yes, select Hazards below.									
E)	Did the RSO identify possible hazards?		L	1	PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:									
┣	Sample Receipt Criteria	Yes	VN N											
1	scaled?			17 S S	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)									
2	Chain of custody documents included with shipment?	V	全部		Circle Applicable: Client contacted and provided COC COC created upon receipt									
3	Samples requiring cold preservation within $(0 \le 6 \text{ deg. C})$ ?*	V	/ r	Ī	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:									
4	Daily check performed and passed on IR temperature gun?	M		4	Temperature Device Serial # <u>3021B3219</u> Secondary Temperature Device Serial # (If Applicable):									
5	Sample containers intact and sealed?	V	0.00		Circle Applicable: Seals broken Danaged container Leaking container Other (describe)									
6	Samples requiring chemical preservation at proper pH?		V	ſ	Sample ID's and Containers Affected:									
					If Preservation added, Lot#: If Yes, are Encores or Soil Kits present for solids? Yes No NA (If yes, take to VOA Freezer)									
7	Do any samples require Volatile Analysis?		な部分		Do liquid VOA vials contain acid preservation? Yes No NA (If unknown, select No) Are liquid VOA vials free of headspace? Yes No NA Sample ID's and containers affected:									
8	Samples received within holding time?	J	CANE D		ID's and tests affected:									
9	Sample ID's on COC match ID's on bottles?	イ	の心ま		ID's and containers affected:									
lo	Date & time on COC match date & time on bottles?	V			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)									
	Number of containers received match number indicated on COC?	V			Circle Applicable: No container count on COC Other (describe)									
12	Are sample containers identifiable as GEL provided by use of GEL labels?	The second	例	v	/									
1	COC form is properly signed in	N		-	Circle Applicable: Not relinquished Other (describe)									
om	relinquished/received sections? nents (Use Continuation Form if needed):		<b>E</b>											
	PM (or PMA	.) revie	w: I	luiti:	ls									

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019–165
Pennsylvania NELAP	68–00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122020-34
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

List of current GEL Certifications as of 26 February 2021

# Attachment C

Beacon Environmental Map Report (Soil Gas Surveys)



#### Beacon Environmental

2203A Commerce Road, Suite 1 Forest Hill, MD 21050 USA 1.410.838.8780

#### CERTIFICATE OF ANALYSIS

Beacon Proposal No.: 201103R03 Beacon Project No.: 0005603

#### **Project Description:**

Project Site: Westinghouse-CFFF Hopkins, SC

Client PO No.: 130171

Prepared for: Jeremy Grant AECOM

101 Research Drive

Columbia, SC 29203

Knon heide

Ryan W. Schneider Senior Project Manager

February 12, 2021

All data meet requirements as specified in the Beacon Environmental Services, Inc. Quality Assurance Project Plan and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017 requirements, except samples were analyzed within a 24-hour tune window. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

Steven (. Thornley

Steven C. Thornley Laboratory Director

Elas +

Peter B. Kelly Interim Quality Manager



AECOM	<b>Project Site:</b>	Westinghouse-CFFF	<b>Beacon Proposal:</b>	201103R03
101 Research Drive	<b>Project Location:</b>	Hopkins, SC	<b>Beacon Project No.:</b>	0005603
Columbia, SC 29203	<b>Project Manager:</b>	Jeremy Grant	Reported:	02/12/2021

Lab Sample ID: 0005603-02		<b>SG-26</b> Soil Gas			Method:	EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File	ID
Tetrachloroethene	127-18-4	74		10	S21020	306.D

Lab Sample ID: 0005603-03	<b>SG-27</b> Soil Gas				Method:	EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID	
Vinyl Chloride	75-01-4	19		10	S210203	307.D
cis-1,2-Dichloroethene	156-59-2	38		10	S210203	307.D
Trichloroethene	79-01-6	56		10	S210203	307.D
Tetrachloroethene	127-18-4	388		10	S210203	307.D

Lab Sample ID: 0005603-04	Method: EPA 8260C				
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Vinyl Chloride	75-01-4	11		10	S21020308.D
cis-1,2-Dichloroethene	156-59-2	35		10	S21020308.D
Trichloroethene	79-01-6	67		10	S21020308.D
Tetrachloroethene	127-18-4	224		10	S21020308.D

Lab Sample ID: 0005603-05		<b>SG-28</b> Soil Gas			Method:	EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File	ID
Trichloroethene	79-01-6	15		10	S21020	309.D
Tetrachloroethene	127-18-4	89		10	S21020	309.D



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101 Research Drive	Project Location: Hopkins, SC	Beacon Project No.: 0005603
Columbia, SC 29203	Project Manager: Jeremy Grant	<b>Reported:</b> 02/12/2021

Lab Sample ID: 0005603-06		<b>SG-29</b> Soil Gas			Method:	EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File	ID
Trichloroethene	79-01-6	241		10	S210203	310.D
Tetrachloroethene	127-18-4	3,420		10	S210203	310.D

Lab Sample ID: 0005603-07		<b>SG-30</b> Soil Gas			Method:	EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File	ID
Trichloroethene	79-01-6	17		10	0 S21020311.D	
Tetrachloroethene	127-18-4	148		10	S21020	0311.D

Lab Sample ID:	0005603-08		SG-31			Method:	EPA 8260C
Soil Gas							
		CAS#	Result		LOQ		
Analyte	Analyte		(ng)	Q	(ng)	File	ID
Tetrachloroeth	ene	127-18-4	55		10	S21020	)312.D

Lab Sample ID: 0005603-09		<b>SG-32</b> Soil Gas		Method: EPA 8260C
Analyte	CAS#	Result (ng)	Q (ng)	File ID
cis-1,2-Dichloroethene	156-59-2	17	10	S21020313.D
Trichloroethene	79-01-6	298	10	S21020313.D
Tetrachloroethene	127-18-4	2,900	10	S21020313.D



AECOM	<b>Project Site:</b>	Westinghouse-CFFF	<b>Beacon Proposal:</b>	201103R03
101 Research Drive	<b>Project Location:</b>	Hopkins, SC	<b>Beacon Project No.:</b>	0005603
Columbia, SC 29203	<b>Project Manager:</b>	Jeremy Grant	Reported:	02/12/2021

Lab Sample ID: 0005603-10	Method: EPA 8260C				
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
1,1-Dichloroethene	75-35-4	11		10	S21020314.D
trans-1,2-Dichloroethene	156-60-5	38		10	S21020314.D
cis-1,2-Dichloroethene	156-59-2	129		10	S21020314.D
Trichloroethene	79-01-6	1,710		10	S21020314.D
Tetrachloroethene	127-18-4	7,110		10	S21020314.D

Lab Sample ID: 00	005603-11		<b>SG-34</b> Soil Gas			Method:	EPA 8260C
Analyte		CAS#	Result (ng)	Q	LOQ (ng)	File	ID
Tetrachloroethene	e	127-18-4	12		10	S21020	315.D

Lab Sample ID: 0005603-12		G <b>-35</b> 1 Gas	М	ethod: EPA 8260C
Analyte	CAS#	Result (ng) Q	LOQ (ng)	File ID
Tetrachloroethene	127-18-4	224	10	S21020316.D

Lab Sample ID: 0005603-13	Lab Sample ID:         0005603-13         SG-36           Soil Gas         Soil Gas				Method:	EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	-	
Trichloroethene	79-01-6	27		10	0 S21020317.D	
Tetrachloroethene	127-18-4	1,080		10	S21020	317.D



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Lab Sample ID: 0005603-14	<b>SG-37</b> Soil Gas			Method: EPA 8260C
Analyte	CAS#	Result (ng)	Q (ng)	File ID
cis-1,2-Dichloroethene	156-59-2	90	10	S21020318.D
Trichloroethene	79-01-6	604	10	S21020318.D
Tetrachloroethene	127-18-4	6,680	10	S21020318.D

Lab Sample ID: 0005603-15		<b>SG-38</b> Soil Gas			Method: EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID
Vinyl Chloride	75-01-4	59		10	S21020319.D
1,1-Dichloroethene	75-35-4	45		10	S21020319.D
1,1,2-Trichlorotrifluoroethane (Fr.113)	76-13-1	11		10	S21020319.D
trans-1,2-Dichloroethene	156-60-5	6,720		10	S21020319.D
1,1-Dichloroethane	75-34-3	22		10	S21020319.D
cis-1,2-Dichloroethene	156-59-2	5,840		10	S21020319.D
Chloroform	67-66-3	18		10	S21020319.D
Trichloroethene	79-01-6	10,100		10	S21020319.D
Tetrachloroethene	127-18-4	8,780		10	S21020319.D

Lab Sample ID: 0005603-16	<b>SG</b> - Soil			Method: EPA 8260C
Analyte	CAS#	Result (ng) Q	LOQ (ng)	File ID
Tetrachloroethene	127-18-4	24	10	S21020320.D

Lab Sample ID: 0005603-17		SG-40			Method:	EPA 8260C
Soil Gas						
		Result		LOQ		
Analyte	CAS#	(ng)	Q	(ng)	File	ID
Tetrachloroethene	127-18-4	221		10	S21020	321.D



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101 Research Drive	Project Location: Hopkins, SC	Beacon Project No.: 0005603
Columbia, SC 29203	Project Manager: Jeremy Grant	<b>Reported:</b> 02/12/2021

Lab Sample ID: 0005603-18	<b>SG-41</b> Soil Gas				Method: El	PA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File ID	
Trichloroethene	79-01-6	48		10	S21020322	.D
Tetrachloroethene	127-18-4	1,220		10	S21020322	L.D

Lab Sample ID: 0005603-19		<b>SG-42</b> Soil Gas			Method:	EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File	ID
Trichloroethene	79-01-6	20		10	S21020	)323.D
Tetrachloroethene	127-18-4	102		10	S21020	)323.D

Lab Sample ID: 0005603-20		<b>SG-43</b> Soil Gas			Method:	EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File	ID
Trichloroethene	79-01-6	33		10	S21020	)324.D
Tetrachloroethene	127-18-4	1,080		10	S21020	0324.D

Lab Sample ID: 0005603-21		<b>SG-44</b> Soil Gas			Method:	EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File	ID
Trichloroethene	79-01-6	66		10	S21020	325.D
Tetrachloroethene	127-18-4	757		10	S21020	325.D



AECOM	Project Site: We	estinghouse-CFFF	<b>Beacon Proposal:</b>	201103R03
101 Research Drive	Project Location: Ho	opkins, SC E	Beacon Project No.:	0005603
Columbia, SC 29203	Project Manager: Jer	remy Grant	<b>Reported:</b>	02/12/2021

Lab Sample ID: 0005603-22		<b>SG-45</b> Soil Gas		Method: EPA 8260C
Analyte	CAS#	Result (ng) Q	LOQ (ng)	File ID
1,1,2-Trichlorotrifluoroethane (Fr.113)	76-13-1	12	10	S21020326.D
trans-1,2-Dichloroethene	156-60-5	136	10	S21020326.D
cis-1,2-Dichloroethene	156-59-2	85	10	S21020326.D
Chloroform	67-66-3	17	10	S21020326.D
Trichloroethene	79-01-6	2,440	10	S21020326.D
Tetrachloroethene	127-18-4	8,590	10	S21020326.D

Lab Sample ID: 0005603-23		<b>SG-46</b> Soil Gas			Method:	EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File	ID
Tetrachloroethene	127-18-4	121		10	S21020	)327.D

Lab Sample ID: 0005603-25		<b>SG-48</b> Soil Gas		Method: EPA 8260C
Analyte	CAS#	Result (ng) Q	LOQ (ng)	File ID
Vinyl Chloride	75-01-4	10	10	S21020329.D
1,1-Dichloroethene	75-35-4	59	10	S21020329.D
trans-1,2-Dichloroethene	156-60-5	245	10	S21020329.D
cis-1,2-Dichloroethene	156-59-2	2,820	10	S21020329.D
Trichloroethene	79-01-6	4,860	10	S21020329.D
Tetrachloroethene	127-18-4	5,210	10	S21020329.D

Lab Sample ID: 0005603-26		<b>SG-49</b> Soil Gas			Method:	EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File	ID
Trichloroethene	79-01-6	12		10	S21020	330.D
Tetrachloroethene	127-18-4	57		10	S21020	330.D



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101 Research Drive	Project Location: Hopkins, SC	Beacon Project No.: 0005603
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Lab Sample ID: 0005603-27	S	<b>5G-49 Dup</b> Soil Gas			Method:	EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File	ID
Tetrachloroethene	127-18-4	47		10	S21020	331.D

Lab Sample ID: 0005603-28		<b>SG-50</b> Soil Gas			Method:	EPA 8260C
Analyte	CAS#	Result (ng)	Q	LOQ (ng)	File	ID
Trichloroethene	79-01-6	11		10	S21020	)332.D
Tetrachloroethene	127-18-4	118		10	S21020	)332.D

Lab Sample ID:	0005603-29		<b>SG-51</b> Soil Gas			Method:	EPA 8260C
Analyte		CAS#	Result (ng)	Q	LOQ (ng)	File	ID
Tetrachloroeth	ene	127-18-4	24		10	S21020	333.D

Lab Sample ID: 0005603-30		<b>SG-52</b> Soil Gas		Method: EPA 8260C
Analyte	CAS#	Result (ng) Q	LOQ (ng)	File ID
Chloroform	67-66-3	22	10	S21020334.D
Trichloroethene	79-01-6	18	10	S21020334.D
Tetrachloroethene	127-18-4	584	10	S21020334.D



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Lab Sample ID: 0005603-31		<b>SG-53</b> Soil Gas		Method: EPA 8260C
Analyte	CAS#	Result (ng) Q	LOQ (ng)	File ID
Vinyl Chloride	75-01-4	32	10	S21020335.D
1,1-Dichloroethene	75-35-4	68	10	S21020335.D
trans-1,2-Dichloroethene	156-60-5	353	10	S21020335.D
cis-1,2-Dichloroethene	156-59-2	4,510	10	S21020335.D
Trichloroethene	79-01-6	4,240	10	S21020335.D
Tetrachloroethene	127-18-4	2,860	10	S21020335.D



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Columbia, SC 29203	Project Manager:	Jeremy Grant	Reported:	02/12/2021

#### Map Data Summary Table

Sample locations are shown on **Figure 1**. The following table lists number of detections on field samples from the current survey, the reporting limit, and the maximum value for each mapped compound. The table also includes the transformation and interpolation method for the compound distribution maps provided.

Figure No.	Compound	Number of Detections	LOQ (ng)	Max Value (ng)	Transformation Method	Interpolation Method
2	cis-1,2-Dichloroethene	8	10	5,840	Log	Kriging
3	Trichloroethene	19	10	10,100	Log	Kriging
4	Tetrachloroethene	27	10	8,780	Log	Kriging





Beacon Project 5603 -- Page 12 of 14



Beacon Project 5603 -- Page 13 of 14



Beacon Project 5603 -- Page 14 of 14

## Attachment D

Tabulated Groundwater Screening Results L-50, L-51 and L-56 through L-58

#### February 2021 Groundwater Screening Analytical Results Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

	Location	L-50	L-50	L-50	L-51	L-51	L-56	L-56	L-56	L-57	L-57	L-58	L-58	L-58
	Date	2/19/2021	2/19/2021	2/19/2021	2/22/2021	2/22/2021	2/17/2021	2/17/2021	2/17/2021	2/16/2021	2/17/2021	2/16/2021	2/16/2021	2/16/2021
	Туре	N	N	FD	N	N	N	N	N	N	N	N	N	N
[	Depth (feet)	20-24	46-50	46-50	21-25	41-45	22-26	33-37	41-45	26-30	42-46	23-27	31-35	40-44
Analyte	MCL													
1,1-Dichloroethene	7	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane	5	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
cis-1,2-Dichloroethen	e 70	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Tetrachloroethene	5	22	9	8.7	87	110	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
trans-1,2-Dichloroeth	ene 100	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Trichloroethene	5	< 1 U	< 1 U	< 1 U	2.2	1.8	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl chloride	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U

Notes

Concentrations in micrograms per liter

N - normal sample

FD - field duplicate sample

MCL - Maximum Contaminant Level

Bold concentrations indicate detections

Concentrations in shaded cells exceed their MCL

U = not detected above reporting detection limit